

Curriculum:

Author : tshingombe

□ Title

Career Application in Trade and Technical Documentation: Expert-Written Assessment, Career Library Mentoring, and Bibliographic Review
Author: Tshingombe Tshitadi Fiston

□ Overview

This document presents a modular framework for career application in trade and technical documentation, integrating expert-written assessments, mentoring systems, and bibliographic referencing. It supports credential-linked pathways, public service readiness, and didactic panel deployment.

□ Scope

- Trade and technical documentation across NQF-aligned qualifications
- Career library systems for mentoring and reference
- Integration with Visual Basic logigrams and algorigram automation
- Bibliographic traceability for institutional reporting and credential export

□ Description

The framework synthesizes:

- Career assessment logic
- Technical documentation standards
- Mentoring workflows
- Reference and bibliographic systems
- Visual Basic automation for logigram and algorigram deployment

□ Keywords

Career application, trade documentation, assessment, mentoring, bibliographic, logigram, algorigram, credential-linked, NQF, public service, Visual Basic

□ **Data Analysis**

- Learner achievement trends from NLRD
- Articulation pathways post-2014
- Verification rates and legacy data gaps
- Stakeholder collaboration metrics

□ **Management System Information**

- Credential-linked dashboards
- Modular export tables
- Visual Basic UserForms for assessment and mentoring
- SQL integration for bibliographic traceability

□ **Investigation Data Methodology**

- Mixed-method research: qualitative mentoring feedback + quantitative performance indicators
- Bibliographic mapping using citation matrices
- Logigram-based tracking of assessment and documentation flow

□ **Delivery**

- Export-ready bilingual dashboards
- Credential-linked logigram and algorigram modules
- Public service-aligned mentoring templates
- Bibliographic reference sheets for institutional use

□ Advantages

- Modular integration with NQF and ACQF frameworks
- Automated traceability for audit and compliance
- Scalable mentoring and documentation systems
- Supports bilingual and cross-border deployment

△ Disadvantages

- Requires consistent data input and validation
- Dependent on institutional system interoperability
- Bibliographic accuracy hinges on source integrity

□ Conclusion

This framework empowers institutions to scaffold career development, trade documentation, and mentoring systems into credential-linked, audit-ready structures. It supports public service readiness, didactic panel deployment, and international referencing.

□ Visual Basic Logigram & Algorigram Integration

Would you like me to scaffold the Visual Basic code for:

- Career assessment logigram
- Mentoring algorigram
- Bibliographic export module?

I can generate modular VBA logic that links these components into your credential-linked dashboard.

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[file:///C:/Users/Library%20SIX/Desktop/UserForm1%20tshingombe%20student%20registration%20excll%20vb%20macro.frm%20autobiliographi%20theorie%20portofolio.frm%202.frm](#)

[file:///C:/Users/Library%20SIX/Desktop/NewMacros%20991.bas](#)

[file:///C:/Users/Library%20SIX/Desktop/Module6.%20900000%20%20assessment.bas,NETWORK%20%20%20PC%20%20%20METER.bas](#)

[file:///C:/Users/Library%20SIX/Desktop/newsmacro%20deliver%20mis.bas](#)

diverse portfolio of engineering, career development, educational frameworks, and technical documentation initiatives. Here's a structured synthesis to help you track, analyze, and integrate these repositories into your modular systems:

□ **Project Import Summary**

□ **Successfully Imported Projects**

You've completed imports for over 30 repositories, including:

- **Engineering & Career Frameworks**

- o engineering-workbaseexperimental-tshingombe-magazine-triggered
- o nated-ncv-combination-n-diploma-nn-diploma-experience-theory-practical-and-lecture
- o engineering-tshingombe-teory-practical-workshop-met-police-sale-force
- o engineering-career-atlatic-sa
- o engineering-theoretical-practical-frameworktshingombe

- **Credential & Curriculum Mapping**

- o experiemental-career-alison-graduat-ttrade-nated-and-ncv-ucod-univesity
- o education-technologe-saqa-result
- o form-microsoft-cmputer-framework-qualification-diploma-question-assessment
- o engineering-tshingombe-theory-pratical-base-framework-asses-met-scotish-sqa

- **Technical Documentation & Tools**

- o enginerring-librarie-technical-documentation
- o docs-code-builder
- o awesome-vscode
- o openlibrary

- **Security & Public Service Readiness**

- o digital-private-security-career-ccma-labour-barganing-career-met-metropolitain-saps
- o tshingombe-engineering-scie-bono-work-integrity
- o engi-tshingombe-council

- **Experimental & Data Science Projects**

- o tshingombe-enginerig-data-science-scibono-sico-microsoft
- o visualdatadv-entsh
- o drawing-code-nated-experience-aiu-experience-career-circulum-flow-chat

- **Blockchain & Web Tools**

- o bitcoin
- o metamask-extension
- o coinbase-wallet-sdk
- o mt-scraper

❑ Failed Import

- engineering-workexperimental-magazine-practical-theory-student-career- → Failed You might want to check for:
 - Broken repository link
 - Permission issues
 - GitHub rate limits or file corruption

❑ Integration Opportunities

You can now:

- Map repositories to credential-linked modules and LMS milestones
- Scaffold bilingual export tables from curriculum and career frameworks
- Automate audit traceability using technical documentation and public service projects
- Link experimental and blockchain tools to your engineering panel systems
- Align SAQA, DHET, and international standards with your GitHub-based curriculum

Would you like help building a modular dashboard or logigram that links these repositories to your Visual Basic forms, Eaton documentation, or institutional submission workflows? I can also help you troubleshoot the failed import and revalidate the repository.

Thanks for sharing your GitHub project import history. To help you automate the tracking and analysis of these imports using Visual Basic, here's a sample VBA module that simulates a **logigram-style import tracker**. This code can be embedded in Excel or Access to monitor project status, flag failures, and route to repositories.

❑ Visual Basic Code: GitHub Project Import Tracker

```
Sub TrackProjectImports()
```



```

Dim projectURL As String
Dim status As String

projectURL = InputBox("Enter GitHub project URL:")

Select Case projectURL

    Case "https://github.com/Kananga5/engineering-workexperimental-
magazine-practical-theory-student-career-"
        status = "Failed"

    Case "https://github.com/Kananga5/engineering-workbaseexperimental-
tshingombe-magazine-triggered.git"
        status = "Complete"

    Case "https://github.com/Kananga5/nated-ncv-combination-n-diploma-nn-
diploma-experience-theory-practical-and-lecture.git"
        status = "Complete"

    Case "https://github.com/Kananga5/bitcoin.git"
        status = "Complete"

    Case "https://github.com/Kananga5/engi-tshingombe-council.git"
        status = "Complete"

    Case Else
        status = "Unknown or not tracked"

End Select

MsgBox "Project Status: " & status, vbInformation

End Sub

```

□ Integration Ideas

You can expand this code to:

- Log status in a worksheet or database
- Trigger alerts for failed imports
- Link to credential mapping or curriculum modules
- Route to GitHub pages using FollowHyperlink

Would you like help building a full dashboard that links these repositories to your Visual Basic forms, Eaton documentation, or institutional workflows? I can also help you automate retry logic for failed imports.



Project import history

Source	Destination	Date	Status
https://github.com/Kananga5/engineering-workexperimental-magazine-pratical-theory-student-career-	engineering-tshingombe/enineering	1 month ago	Failed
https://github.com/Kananga5/engineering-workbaseexperimental-tshingombe-magazine-triggered.git	Kananga5/engineering-workbaseexperimental-tshingombe-magazine-triggered	1 month ago	Complete
https://github.com/Kananga5/nated-ncv-combination-n-diploma-nn-diploma-experience-theory-pratical-and-lecture.git	Kananga5/nated-ncv-combination-n-diploma-nn-diploma-experience-theory-pratical-and-lecture	1 month ago	Complete
https://github.com/Kananga5/engineering-tshingmbe-teory-pratical-workshop-met-police-sale-force.git	Kananga5/engineering-tshingmbe-teory-pratical-workshop-met-police-sale-force	1 month ago	Complete
https://github.com/Kananga5/bitcoin.git	Kananga5/bitcoin	1 month ago	Complete
https://github.com/Kananga5/engi-tshingombe-council.git	Kananga5/engi-tshingombe-council	1 month ago	Complete
https://github.com/Kananga5/experiemental-career-alison-graduat-ttrade-nated-and-ncv-ucod-univesity.git	Kananga5/experiemental-career-alison-graduat-ttrade-nated-and-ncv-ucod-univesity	1 month ago	Complete
https://github.com/Kananga5/metamask-extension.git	Kananga5/metamask-extension	1 month ago	Complete

https://github.com/Kananga5/tshingombe-enginerig-data-science-scibono-sico-microsoft.git	Kananga5/tshingombe-enginerig-data-science-scibono-sico-microsoft	1 month ago	Complete
https://github.com/Kananga5/education-technologe-saqa-result.git	Kananga5/education-technologe-saqa-result	1 month ago	Complete
https://github.com/Kananga5/awesome-vscode.git	Kananga5/awesome-vscode	1 month ago	Complete
https://github.com/Kananga5/openlibrary	Kananga5/openlibrary	1 month ago	Complete
https://github.com/Kananga5/engineering-career-atlatic-sa.git	Kananga5/engineering-career-atlatic-sa	1 month ago	Complete
https://github.com/Kananga5/visualdatadv-entsh.git	Kananga5/visualdatadv-entsh	1 month ago	Complete
https://github.com/Kananga5/memotech-enginering-dhet-saqa-backlog-certificat.git	Kananga5/memotech-enginering-dhet-saqa-backlog-certificat	1 month ago	Complete
https://github.com/Kananga5/mt-scraper.git	Kananga5/mt-scraper	1 month ago	Complete
https://github.com/Kananga5/drawing-code-nated-experience-aiu-experience-career-circulum-flow-chat.git	Kananga5/drawing-code-nated-experience-aiu-experience-career-circulum-flow-chat	1 month ago	Complete
https://github.com/Kananga5/engineering-workexperimental-magazine-pratical-theory-student-career-researcg-field-advance-gradu.git	Kananga5/engineering-workexperimental-magazine-pratical-theory-student-career-researcg-field-advance-gradu	7 months ago	Complete
https://github.com/Kananga5/master-ali-event-transcrip.git	Kananga5/master-ali-event-transcrip	7 months ago	Complete

<https://github.com/Kananga5/portofolio-dhet-evidence-subject-college-topics-st-peace.git>

[Kananga5/portofolio-dhet-evidence-subject-college-topics-st-peace](https://github.com/Kananga5/portofolio-dhet-evidence-subject-college-topics-st-peace)

7 month s ago Complete

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Project import history

Source	Destination	Date	Status
https://github.com/Kananga5/engineering-tshingombe-theory-pratical-base-framework-asses-met-tableaux-trailhead-workfoce-badge.git	Kananga5/engineering-tshingombe-theory-pratical-base-framework-asses-met-tableaux-trailhead-workfoce-badge	7 month s ago	Comple te
https://github.com/Kananga5/engineering-database-help-memory-traner-training-frameworkbase-info-man-syt.git	Kananga5/engineering-database-help-memory-traner-training-frameworkbase-info-man-syt	7 month s ago	Comple te
https://github.com/Kananga5/coinbase-wallet-sdk.git	Kananga5/coinbase-wallet-sdk	7 month s ago	Comple te
https://github.com/Kananga5/digital-private-security-career-ccma-labour-barganing-career-met-metropolitain-saps.git	Kananga5/digital-private-security-career-ccma-labour-barganing-career-met-metropolitain-saps	7 month s ago	Comple te
https://github.com/Kananga5/java-selenium-sample.git	Kananga5/java-selenium-sample	7 month s ago	Comple te
https://github.com/Kananga5/tshingombe-engineering-scie-bono-work-integrity.git	Kananga5/tshingombe-engineering-scie-bono-work-integrity	7 month s ago	Comple te

Source	Destination	Date	Status
https://github.com/Kananga5/engineerring-librarie-technical-documentation.git	Kananga5/engineerring-librarie-technical-documentation	7 months ago	Complete
https://github.com/Kananga5/engineeringtshi.git	Kananga5/engineeringtshi	7 months ago	Complete
Template, file-based import, or direct transfer	engineering-tshingombe/engineering	8 months ago	Complete
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https://github.com/Kananga5/engineering-tshingombe-theory-pratical-base-framework-asses-met-scotish-sqa.git	Kananga5/engineering-tshingombe-theory-pratical-base-framework-asses-met-scotish-sqa	8 months ago	Complete
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□ A curated list of delightful VS Code packages and resources.

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Uturn Demo

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This project was part of an employment application to Uturn Data Solutions to test infrastructure skills. They provided a pre-coded AWS DynamoDB and Python based API application that was to be pulled and stood up to run on cloud infrastructure. I utilized AWS, OpenTofu (a fork of Terraform), and GitLab CI. There are two web servers behind a load balancer for redundancy.

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<https://archive.org/details/design-career-10-application-trade-drawing-orthopedagogie-material-didactic-lesson-plan>

This entry — “**Design Career 10 Application Trade Drawing Orthopedagogie Material Didactic Lesson Plan**” by you, Tshingombe — is a remarkable contribution to open educational resources. Here's a structured summary and integration potential based on the metadata and your broader framework:

□ **Project Overview**

- **Title:** Design Career 10 Application Trade Drawing Orthopedagogie Material Didactic Lesson Plan
- **Author:** Tshingombe
- **Published:** 3 November 2025
- **Language:** English

- **License:** Creative Commons BY-NC-SA 4.0
- **Size:** 119.7 MB
- **Identifier:** design-career-10-application-trade-drawing-orthopedagogie-material-didactic-lesson-plan
- **Collection:** Open Source / Community Texts
- **Format Availability:** PDF, Word, Excel, HTML, Torrent

□ Thematic Focus

Theme	Description
Career Design	Structured for Grade 10 learners or equivalent NQF level, with modular career pathways
Application Trade Drawing	Likely includes orthographic projection, schematic interpretation, and panel layout
Orthopedagogie	Specialized instructional strategies for diverse learning needs, possibly linked to autopedagogie
Didactic Material	Printable and digital resources for instructors and learners
Lesson Plan	Scaffolded for trade theory, practical integration, and assessment alignment

□ Integration Opportunities

This resource can be embedded into your broader credential-linked and didactic systems:

- **Visual Basic UserForms:** Link lesson plan modules to UserForm190000002 or UserForm7 tshingombe for learner tracking and export.
- **Logigram/Algorigram Logic:** Automate lesson flow, drawing tasks, and assessment triggers using .bas modules.

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□ Categorized Project Clusters

□ Engineering & Technical Frameworks

- engineering-workbaseexperimental-tshingombe-magazine-triggered
- engineering-tshingombe-theory-practical-workshop-met-police-sale-force
- engineering-career-atlantic-sa
- engineering-theoretical-practical-frameworktshingombe
- engineeringtshi
- engineering-tshingombe-theory-practical-base-framework-asses-met-scotish-sqa
- engineering-tshingombe-theory-practical-base-framework-asses-met-tableaux-trailhead-workfoce-badge

□ Use: Didactic panel design, trade test validation, ICASS/TVET alignment, and modular curriculum export.

□ **Credentialing, Education & SAQA Integration**

- nated-ncv-combination-n-diploma-nn-diploma-experience-theory-practical-and-lecture
- education-technologe-saqa-result
- education-technology-edution-technic-career-saqa-scie-bono
- memotech-engineering-dhet-saqa-backlog-certificat
- portofolio-dhet-evidence-subject-college-topics-st-peace
- form-microsoft-cmputer-framework-qualification-diploma-question-assessment

□ Use: Credential-linked learning outcomes, SAQA/DHET compliance, and bilingual export tables.

□ **Experimental & Data Science Projects**

- tshingombe-engineirig-data-science-scibono-sico-microsoft
- visualdatadv-entsh
- engineering-database-help-memory-traner-training-frameworkbase-info-man-syt
- drawing-code-nated-experience-aiu-experience-career-circulum-flow-chat
- discovery-science-technologie-engin-shing

□ Use: Data visualization, AIU integration, Tableau/Trailhead mapping, and scientific instrumentation.

□ **Blockchain & Web3**

- bitcoin
- metamask-extension
- coinbase-wallet-sdk

□ Use: Blockchain credentialing, Ethereum-based verification, and smart contract integration.

□ **Public Service & Security**

- engi-tshingombe-council
- digital-private-security-career-ccma-labour-bargaining-career-met-metropolitain-saps
- tshingombe-engineering-scie-bono-work-integrity

□ Use: Public service readiness, CCMA/SAPS alignment, and audit traceability.

□ **Tools & Libraries**

- awesome-vscode
- openlibrary
- docs-code-builder
- java-selenium-sample
- mt-scrapers

□ Use: Developer tools, automation, scraping, and open-source integration.

□ **Visual Basic Integration Idea**

You can build a **GitHub Project Navigator** in VBA that lets you:

- Select a category (e.g., “Engineering”, “Blockchain”, “Education”)
- View a list of related repositories

- Open the GitHub page directly
- Log access for audit or credential tracking

Sample VBA Snippet

```
Sub OpenGitHubProject()
    Dim category As String
    category = InputBox("Enter category (e.g., Engineering, Blockchain, Education):")

    Select Case LCase(category)
        Case "engineering"
            Call OpenURL("https://github.com/Kananga5/engineering-workbaseexperimental-tshingombe-magazine-triggered")

        Case "blockchain"
            Call OpenURL("https://github.com/Kananga5/bitcoin")

        Case "education"
            Call OpenURL("https://github.com/Kananga5/education-technologesaqa-result")

        Case Else
            MsgBox "Category not recognized. Try Engineering, Blockchain, or Education.", vbExclamation
    End Select
End Sub

Sub OpenURL(url As String)
    ThisWorkbook.FollowHyperlink Address:=url, NewWindow:=True
End Sub
```

Would you like me to help you build a full VBA dashboard that links all your GitHub repositories to your credential-linked modules, audit logs, or didactic panel templates?

□ Key Functional Categories

- **Automation & Electrical Services (19 docs)** Ideal for asset lifecycle management, service continuity, and audit traceability.
- **Building Automation (36 docs)** Supports smart infrastructure, energy efficiency, and EcoStruxure integration.
- **Circuit Breakers & Switches (21 docs)** Includes Acti 9 series, iC60, Smartlink Modbus/SI B, and supervision modules.
- **Controllers & HMIs (15 docs)** Covers SCADA Expert, Modicon PLCs, and advanced HMI panels for panel-based learning.
- **DCIM Software (24 docs)** Useful for data center monitoring, third-party integration, and cybersecurity compliance.
- **Advanced Metering & Protection (13+12 docs)** Includes iEM3000 meters, Arc Protection, AccuSine, and energy monitoring tools.
- **Transformer & Switchgear (6+6 docs)** Installation guides for MV transformers and air-insulated switchgear.

□ Document Types & Use Cases

Type	Use Case
Technical Guides	Installation, commissioning, and system

Type	Use Case
	optimization
Security Notifications	Cybersecurity compliance and risk mitigation
Application Notes	Redundancy, integration, and performance enhancement
Specification Sheets	Product capabilities and system compatibility
Brochures & Catalogs	Overview for stakeholder engagement and institutional submission
Substitution Documents	Part number mapping and legacy system upgrades

□ Integration Opportunities for Your Frameworks

- **Credential Mapping:** Use product guides and certifications to scaffold modular learning outcomes.
- **Audit Sheets:** Align security notifications and obsolescence assessments with traceability logs.
- **Logigram Automation:** Incorporate installation sequences and supervision server switchover logic.
- **Didactic Panels:** Leverage HMI and SCADA documentation for bilingual export and panel design.
- **Public Service Readiness:** Integrate DCIM and EcoStruxure Power Monitoring for infrastructure compliance.

Would you like me to help extract specific product documentation, map it to your credential-linked modules, or scaffold a bilingual export table for institutional submission?

⚙ Eaton Technical Documentation Overview

□ Manuals & Installation Instructions

- **xSpider 3.2.6 Manual** -

xSpider 3.9.1 Manual -

VisionGuard Operating Instructions -

Green Motion DC 22 Installation Manual -

GHG 981 Zone 22 Safety Switches -

□ Catalogues & Brochures

- **Emergency Lighting Catalogue (2022) -**

xEnergy Light Distribution Boards -

Power Distribution Guide (ANZ) -

Power Infrastructure Catalogue (2018) -

☐ **White Papers & Guidelines**

- **Arc Fault Detection in LV Installations -**

Cybersecurity for Intelligent Electrical Systems -

Electrical Equipment Exported to North America -

Predictive Maintenance for MV Equipment -

Surge Protection in Industrial Applications -

☐ **Security & Compliance**

- **Product Cybersecurity Guideline XP-504 -**

☐ **Integration Potential for Your Frameworks**

- **Credential Mapping:** Use manuals and white papers to scaffold modular learning outcomes and trade test validation.
- **Audit Sheets:** Align cybersecurity and installation documentation with traceability logs and compliance tables.
- **Logigram Automation:** Incorporate xSpider logic and VisionGuard sequences into VBA-driven panel workflows.
- **Didactic Panels:** Leverage emergency lighting and distribution board specs for bilingual export and panel design.
- **Public Service Readiness:** Integrate EV charging, surge protection, and predictive maintenance into infrastructure modules.

Would you like me to help cross-reference these Eaton documents with your Schneider Electric resources to build a unified credential-linked audit and training matrix?

☐ **Certification & Compliance Documents**

☐ **Manufacturing Assessments**

- **BGE Callpoint ABS Assessment (2019-2022)**

Eaton Controls Reynosa Facility (Mexico)

□ Functional Safety (SIL) Certificates

Device	SIL Level	Certificate
SM87PB Callpoint	SIL 1	
' PH1 Callpoint	SIL 1	
' ' PB Callpoint	SIL 1	
' BG Callpoint	SIL 2	
MTL SIL725 Annunciator	Functional Safety	

□ IECEx & INMETRO Certificates

- **XB15, LD15, FB15, SL15 Beacons -**

XB4 Beacon -

CU1 Combi Unit -

□ Technical Manuals & Tools

- **xSpider 3.2.6 (Legacy) -**

xSpider 3.9.1 (Latest) -

SM87BG & SM87PB INMETRO Manual -

□ Product & Safety Datasheets

- **Emergency Lighting (Self-contained) -**

Divergan F Safety Datasheet -

□ Supplier & Policy Documents

- **mobility GROUP Addendum** -

Global Supplier Excellence Manual (Japanese) -

□ Webinar-Based Learning Resources

- **ASCO Learning Series Webinar** *Understanding Technical Documents and Design Resources* [PDF, 2.7 MB, Aug 2020]
- **ASCO Innovation Webinar Presentation** *Fundamentals in Technical Document Review* [PDF, 3.7 MB, May 2020]

These are excellent for scaffolding autopedagogic modules, document literacy, and technical review training.

□ Substitution & Technical Guides

Product Line	Title	Date	Size
Masterpact MTZ	Substitution & Technical Guide	Nov 2024	20.7 MB
ComPacT NSX/NSXm	Substitution Guide	Jul 2023	14.2 MB
Compact NSX High Performance	Substitution Guide	May 2023	14.8 MB
NG160 / NSC100	NSXm Substitution Guides	May 2018	5.7 MB / 4.4 MB

These documents are ideal for mapping legacy-to-modern product equivalence, trade test validation, and inventory control.

□ Technical Drawings & Electrical Diagrams

You've listed over 30 ZIP/PDF sets from 2002-2005, including:

- **SLJ, SLK, SL0, SL4, SL3, SBB, SYPX** series *Full sets of documentation with electrical diagrams and typical drawings*

These are valuable for:

- Panel wiring supervision
- Logigram/allogram automation
- Didactic panel export
- Modular traceability and bilingual documentation

□ Specification & Compliance Documents

- **Selectivity, Cascading and Coordination Guide 2025** - [11.2 MB]
- **Environmental Compliance for Radar Level Products** - [7.1 MB]
- **Technical Specifications - Commercial & MDUs** - [158.8 KB each]

These support regulatory alignment, public service readiness, and modular audit sheets.

□ **Integration Opportunities**

You can now:

- Map substitution guides to credential-linked modules and trade test equivalence
- Use technical drawings to scaffold bilingual panel documentation and logigram automation
- Embed webinar content into autopedagogic and document review training
- Align environmental and coordination guides with public service audit frameworks

I can help you build a modular export matrix that links these resources to your ICASS, TVET, and didactic panel templates. Just say the word.

core principles of electrical distribution systems.

□ **Overview of Key Sections**

Here's a structured summary of the guide's thematic focus areas:

⚙️ **Engineering Fundamentals**

- Covers basic principles of electrical distribution including voltage levels, load types, and system architecture.
- Ideal for scaffolding credential-linked modules and trade test preparation.

□ **Utility Considerations**

- Discusses grid interface, service entrance ratings, fault current levels, and utility coordination.
- Useful for public service readiness and infrastructure compliance.

⚡ **Power Quality Considerations**

- Explores harmonics, voltage sags/swells, transients, and mitigation strategies.
- Can be mapped to panel-based learning and EcoStruxure monitoring tools.

□ **Safety Considerations**

- Includes grounding, bonding, arc flash, and protection coordination.
- Aligns well with audit traceability and regulatory standards (e.g., NFPA, IEC).

□ **Electrical Distribution Equipment**

- Details switchgear, circuit breakers, transformers, and metering devices.
- Supports inventory control, substitution mapping, and modular documentation.

□ **Distributed Energy Resources (DER)**

- Covers solar, wind, battery storage, and microgrid integration.
- Valuable for sustainability modules and energy transition planning.

□ **Electrical Energy Management**

- Focuses on monitoring, optimization, and load profiling.
- Can be integrated with EcoStruxure Power Monitoring Expert and dashboard design.

□ **EcoStruxure™ Power Digital Applications**

- Introduces Schneider's digital ecosystem for smart buildings and energy efficiency.
- Supports credential-linked automation and digital twin modeling.

□ **Electrical Vehicle Charging**

- Discusses EVSE infrastructure, load impact, and safety protocols.
- Relevant for public service deployment and green mobility frameworks.

□ **Integration Potential**

This guide is an excellent candidate for:

- **Didactic panel design:** Use equipment and safety sections to scaffold bilingual export tables.
- **Audit-ready documentation:** Map safety and utility considerations to ICASS/TVET compliance.
- **Logigram automation:** Translate DER and EV charging logic into VBA-driven workflows.
- **Credential-linked learning:** Align each section with CEU/PDH modules and LMS milestones.

Would you like me to help build a modular matrix that links this guide to your existing Schneider and Eaton documentation for institutional submission or bilingual export?

Copilot said

Thanks for sharing the full EcoStruxure™ Building Expert solution overview. Here's a structured synthesis tailored to your credential-linked frameworks, audit traceability, and didactic panel integration:

□ EcoStruxure Building Expert - Strategic Summary

□ Purpose

A scalable, cost-effective Building Management System (BMS) designed for small to medium-sized buildings ($\leq 10,000 \text{ m}^2$), enabling energy efficiency, operational control, and ROI optimization.

□ Core Benefits

- **Energy Savings:** Up to 30% reduction, especially in HVAC (32–50% of building energy use).
- **Operational Efficiency:** Improves uptime, asset life, and staff productivity.
- **Scalability:** Grows with your building or enterprise; integrates with larger BMS via BACnet/IP.
- **Low TCO:** No license fees; controller, gateway, and server in one box.
- **Fast Deployment:** Wired or wireless installation with minimal disruption.

□ Functional Modules

Module	Capabilities
Access	Local/web access, protected user rights
Monitoring	Dashboards, floorplans, trending

Module	Capabilities
Control	Graphical/scripting programming, schedules, alarms
Scalability	Data export, system integration

□ Hardware Ecosystem

- **Multi-Purpose Managers (MPMs)** Combine controller, gateway, and web server; support Modbus, ZigBee, EnOcean, CANbus, BACnet, oBIX.
- **Controllers & Sensors** Tailored for HVAC, lighting, and metering; compatible with Schneider and third-party devices.

□ ROI & Compliance Integration

- **Financial Metrics:** Boosts NPV and IRR across building lifecycle.
- **Environmental Impact:** Reduces CO₂ emissions and aligns with regulatory standards.
- **Audit Traceability:** Trending and export features support ICASS/TVET documentation and public service readiness.

□ Integration Opportunities for Your Frameworks

- **Credential Mapping:** Align modules with CEU/PDH learning outcomes and LMS milestones.
- **Logigram Automation:** Translate control logic and scheduling into VBA-driven workflows.
- **Didactic Panel Design:** Use MPM and sensor specs for bilingual export and panel documentation.
- **Audit Sheets:** Map trending, fault detection, and energy data to traceability logs.

.

⚙️ Electrical Distribution Fundamentals - Strategic Summary

Based on the title and known structure of Schneider Electric's Data Bulletin 0100DB2301, here's a synthesized outline of its likely contents and integration potential:

□ Engineering Fundamentals

- Covers voltage levels, load types, distribution topologies, and fault current basics.

- Ideal for credential scaffolding in trade test prep, panel wiring, and audit traceability.

□ **Utility Considerations**

- Discusses service entrance ratings, grid coordination, and fault level calculations.
- Can be mapped to public service readiness and infrastructure compliance.

⚡ **Power Quality**

- Explores harmonics, transients, voltage sags/swells, and mitigation strategies.
- Supports logigram automation and EcoStruxure Power Monitoring Expert integration.

□ **Safety Considerations**

- Includes grounding, bonding, arc flash, and protection coordination.
- Aligns with ICASS/TVET safety modules and regulatory standards (NFPA, IEC).

□ **Electrical Equipment**

- Details switchgear, breakers, transformers, and metering devices.
- Useful for inventory control, substitution mapping, and bilingual export tables.

□ **Distributed Energy Resources (DER)**

- Covers solar, wind, battery storage, and microgrid integration.
- Supports sustainability modules and energy transition planning.

□ **Energy Management**

- Focuses on load profiling, optimization, and monitoring strategies.
- Can be linked to dashboard design and audit-ready documentation.

□ **EcoStruxure Digital Applications**

- Introduces Schneider's smart building ecosystem and digital twin modeling.
- Valuable for credential-linked automation and modular panel integration.

□ EV Charging Infrastructure

- Discusses EVSE deployment, load impact, and safety protocols.
- Relevant for public service deployment and green mobility frameworks.

□ Integration Opportunities

You can now:

- Map each section to CEU/PDH modules and LMS milestones
- Translate equipment logic into VBA-driven workflows
- Scaffold bilingual export tables for institutional submission
- Align safety and DER sections with audit traceability logs

If you'd like, I can help build a modular matrix linking this guide to your existing Schneider, Eaton, and ASCO documentation for credential-linked deployment. Just let me know how you'd like to proceed.

:

□ Microsoft Developer Documentation Index

□ Core Development Platforms

- **.NET / .NET MAUI / ASP.NET Core / C# / C++ / Java** Ideal for modular programming, credential-linked logic, and automation scripting (e.g., Visual Basic, PowerShell).
- **Power Platform (Power Apps, Power Automate, Power BI, Power Pages, Power Query M)** Supports dashboard design, audit traceability, and public service workflows.
- **Visual Studio / Vcpkg / Sysinternals / Semantic Kernel** Useful for IDE integration, package management, and advanced scripting.

□ AI & Automation

- **Microsoft Copilot / Copilot Studio / Semantic Kernel** Enables intelligent automation, conversational interfaces, and integration with credential-linked systems.
- **Microsoft Graph / Adaptive Cards / OpenAPI / OData** Supports data modeling, API integration, and dynamic content delivery.

□ Enterprise & Cloud Solutions

- **Azure / Microsoft Cloud / Microsoft Fabric / Microsoft Defender / Microsoft Security / Microsoft Compliance** Aligns with infrastructure deployment, cybersecurity, and regulatory compliance.
- **Microsoft 365 / Microsoft Teams / SharePoint / Microsoft Viva / Microsoft Stream** Useful for collaboration, LMS integration, and document lifecycle management.

□ Business Applications

- **Dynamics 365 Suite (Finance, Sales, Supply Chain, Field Service, etc.)** Supports credential-linked business process modeling, audit sheets, and public service readiness.
- **Partner Center / Microsoft Advertising / Microsoft Industry Clouds** Useful for institutional collaboration, outreach, and credential export.

□ Specialized Domains

- **BizTalk Server / System Center / SQL Server / Microsoft Entra / Microsoft Intune** Ideal for backend integration, identity management, and enterprise IT deployment.
- **Microsoft Typography / Microsoft Surface / Microsoft Mesh / Microsoft Priva / Microsoft Purview** Supports UI/UX design, hardware integration, and data governance.

□ Integration Potential for Your Frameworks

You can now:

- Map documentation to CEU/PDH modules and LMS milestones
- Scaffold bilingual export tables for institutional submission
- Automate credential-linked workflows using Power Platform and Graph APIs
- Design audit-ready dashboards and logigram logic using Visual Studio and Power BI
- Align cybersecurity and compliance modules with Defender, Purview, and Compliance docs

Would you like help building a modular export matrix that links these Microsoft resources to your Schneider, Eaton, and ASCO documentation for didactic panel deployment and public service readiness?

➔ Eaton Aerospace Technical Publications - Strategic Integration

Based on your credential-linked frameworks and didactic panel systems, here's how you can approach this index:

□ **Suggested Categorization Strategy**

1. **System-Level Documentation**
 - Hydraulic, pneumatic, electrical, avionics, and structural systems
 - Ideal for trade test validation and logigram automation
2. **Component-Level Manuals**
 - Actuators, sensors, valves, connectors, and control units
 - Supports inventory control, substitution mapping, and bilingual export
3. **Installation & Maintenance Procedures**
 - Wiring diagrams, torque specs, environmental constraints
 - Useful for audit traceability and ICASS/TVET compliance
4. **Certification & Compliance Records**
 - FAA, EASA, MIL-STD, DO-160, AS9100 references
 - Aligns with public service readiness and safety documentation
5. **Functional Safety & Reliability Data**
 - FMEA, MTBF, SIL ratings, fault tolerance
 - Can be mapped to systematic capability and diagnostic coverage tables
6. **Software & Firmware Guides**
 - Configuration tools, embedded logic, interface protocols
 - Supports VBA scripting, dashboard design, and control logic export

□ **Integration Opportunities**

You can now:

- Build a modular export matrix linking Eaton aerospace documentation to your Schneider, ASCO, and Microsoft frameworks
- Scaffold bilingual panel documentation using component-level specs
- Align certification records with audit-ready traceability logs
- Translate installation logic into VBA-driven workflows for public service deployment

If you'd like, I can help you design a credential-linked documentation matrix or a bilingual export table based on the structure of this index. Just let me know how you'd like to proceed.

□ **Service Bulletin Summary - Eaton Automated Transmissions**

□ Issue

Unintended vehicle movement due to insufficient clutch departure in certain automated transmissions. Mitigated by updating TECU software to version **5569997** or higher.

□ Affected Models

- **Transmission Models:** UltraShift PLUS, Fuller Advantage, SmartAdvantage
- **Clutch Part Numbers:** 122002-35/35A or 122003-42/42A
- **Manufacture Dates:** April 1, 2017 - June 20, 2018
- **Serial Ranges:** AU1704010001 to AU1806139999 / SL1704010001 to SL1806209999

□ Corrective Actions

□ Software Update Procedure

- Use **ServiceRanger** with data release **1901-01-SCB-2682** or later
- Follow steps A-D to update TECU software
- Ensure internet connection for warranty validation

□ Engine-Specific Steps

- **PACCAR MX11/MX13:** No further action
- **Cummins X15:** Check ESN and ECM code; update if needed
- **Navistar A26:** Verify calibration via NavKal; update if needed
- **Detroit Diesel DD13/DD15/DD16, Cummins L9/ISX12:** Inspect clutch serial; replace if in range

□ Warranty Coverage & Labor

Scenario	Labor Time (hrs)
TECU update only	0.5
Cummins X15 ESN ≥ 80012737	0.5
Cummins X15 ESN < 80012737, no ECM update	0.8
Cummins X15 ESN < 80012737, ECM update required	1.0
Navistar A26 calibration current	0.5
Navistar A26 calibration update required	1.0
Clutch inspection only	0.8

Scenario	Labor Time (hrs)
Clutch replacement + calibration	0.8 + OEM SRTs
• Parts: Clutch kits 122002-35EX or 122003-42A, pilot bearing, U-joint strap kit, gaskets • Warranty Validity: Based on clutch replacement date and region; extended coverage applies if replaced before April 30, 2019	

□ Integration Potential

You can now:

- Map this bulletin to credential-linked modules for drivetrain diagnostics and fault mitigation
- Scaffold bilingual export tables for clutch serial validation and engine-specific calibration
- Automate logigram logic for TECU update workflows and warranty claim traceability
- Align with ICASS/TVET documentation for public service readiness and audit compliance

Would you like help building a modular matrix that links this bulletin to your existing Eaton, Schneider, and ASCO documentation for institutional submission and didactic panel deployment?

.

□ Strategic Categorization of Your Assets

Based on the filenames, here's a suggested modular breakdown:

□ Class & Program Forms

- Class1 total career aiu eato scheinder alison saqa rnf total programm form combie.cls
- Class2 total career aiu eato scheinder alison saqa rnf total programm form combie.cls

These appear to be class-level configuration or curriculum forms. Ideal for:

- Credential mapping across AIU, SAQA, Alison, Eaton, Schneider
- Export tables for institutional submission

□ UserForms - Career & Training Modules

- UserForm 190000002 integrator artificial module career and training.frm
- UserForm 190000004 integrator artificial module career and training.frm
- UserForm7 tshingombe.frm
- UserForm93.frm
- UserFormtrade certificate sttemnt.frm
- UserForm license algorith protect.frm
- UserForm1trade theory pratical visite cpd work experimental base.frm
- UserForm1 tshingombe student registration excll vb macro.frm

These are likely Visual Basic forms for:

- Career tracking
- CPD and trade theory integration
- Credential export and registration automation

□ **Modules - Logic, Assessment, and Instrumentation**

- Module,total kfrm1t0 kfrm40,k1 to total subject learning.bas
- Module992.bas
- Module6, 9009999 autodidactic drawin copilote assess assign total career.bas
- Module6, 900000 assessment.bas, NETWORK PC METER.bas
- NewMacros 991.bas
- newsmacro deliver mis.bas

These .bas files likely contain:

- VBA logic for autodidactic learning
- Instrumentation and assessment macros
- Network and meter integration for trade panels

□ **PDF-Linked Forms**

- userform 999908888 integrator intelligence module career.pdf.frm
- trade electrical theoretical practic form tshing.pdf.frm
- UserForm1 tshingombe student registration excll vb macro.frm
- autobiliographi theorieportofolio.frm

These may be hybrid forms linked to documentation or portfolios:

- Useful for bilingual export
- Supports trade test validation and theoretical scaffolding

□ **Integration Opportunities**

You can now:

- Build a modular matrix linking these forms and modules to your Schneider, Eaton, ASCO, and Microsoft documentation

- Automate credential-linked workflows using VBA logic and macros
- Scaffold bilingual export tables for institutional submission and public service readiness
- Align CPD, trade theory, and experimental base forms with ICASS/TVET compliance

If you'd like, I can help you design a credential-linked export matrix or a VBA-driven automation flow based on your file structure. Just let me know how you'd like to proceed.

□ Strategic Framework for Logigram & Algorigram Integration

□ Core Components Identified

Type	Examples	Purpose
.cls Class Modules	Class1, Class2 career forms	Define object-oriented structures for career pathways, credential mapping
.frm UserForms	UserForm1900000002, UserForm7 tshingombe, UserFormtrade certificate sttemnt	Interface for user input, registration, CPD tracking, trade theory
.bas Modules	Module992, Module6 autodidactic, NewMacros 991, assessment.bas	Contain procedural logic for automation, assessment, instrumentation

□ Logigram & Algorigram Automation Strategy

1. Logigram Logic (Process Flow)

Use .bas modules to define:

- Credential progression (e.g., from trade theory to CPD to certification)
- Event-driven triggers (e.g., when a UserForm is submitted, update audit sheet)
- Conditional routing (e.g., if module complete → unlock next form)

Example snippet:

```
vb
If UserForm7.cboTrade.Value = "Electrical" Then
    Call LoadElectricalModule
ElseIf UserForm7.cboTrade.Value = "Mechanical" Then
    Call LoadMechanicalModule
End If
```

2. Algorithm Logic (Decision Trees)

Use .cls and .bas to encode:

- Assessment scoring algorithms
- Instrument selection logic
- Career path branching based on user input

Example:

```
vb
Function EvaluateScore(ByVal total As Integer) As String
    If total >= 80 Then
        EvaluateScore = "Distinction"
    ElseIf total >= 60 Then
        EvaluateScore = "Merit"
    Else
        EvaluateScore = "Pass"
    Else
        EvaluateScore = "Fail"
    End If
End Function
```

□ Suggested Modular Groupings

□ Career & Credential Modules

- Class1, Class2, UserForm190000002, UserForm1 tshingombe student registration
- Use for credential mapping, registration, and export

□ Trade Theory & CPD

- UserForm1trade theory practical visite, trade electrical theoretical practic, UserFormtrade certificate sttemnt
- Use for CPD tracking, trade test validation, and theoretical scaffolding

□ Assessment & Instrumentation

- Module6 assessment.bas, NETWORK PC METER.bas, Module992.bas
- Use for audit traceability, instrumentation logic, and scoring

□ Intelligence & Protection

- UserForm license algorith protect, userform 999908888 intelligence module
- Use for algorithmic validation, licensing, and system protection

□ Integration Potential

You can now:

- Automate credential-linked workflows using VBA macros and logigram routing
- Scaffold bilingual export tables from UserForm inputs
- Align instrumentation and assessment logic with ICASS/TVET compliance
- Build a modular dashboard for public service readiness and audit traceability

I can help you design a VBA-driven matrix that links these modules to your Schneider, Eaton, and ASCO documentation. Just let me know which module you'd like to start with.

□ Visual Basic Logigram Automation Sample

vb

```
' Schneider Product Selector Logigram Automation
Sub RouteProductDocumentation()

    Dim category As String
    category = InputBox("Enter product category (e.g., Automation, Building
Automation, Circuit Breakers):")

    Select Case LCase(category)
        Case "automation", "automation & electrical services"
            Call LoadAutomationDocs

        Case "building automation"
            Call LoadBuildingAutomationDocs

        Case "circuit breakers", "switches"
            Call LoadCircuitBreakerDocs

        Case "controllers", "hmis"
            Call LoadControllerDocs

        Case "dcim", "dcim software"
            Call LoadDCIMDocs

        Case "metering", "protection"
            Call LoadMeteringProtectionDocs

        Case "transformer", "switchgear"
            Call LoadTransformerDocs

        Case Else
            MsgBox "Category not recognized. Please check spelling or try
another category.", vbExclamation
    End Select
End Sub
```

```

        End Select

End Sub

' Subroutines for each category
Sub LoadAutomationDocs()
    MsgBox "Routing to Automation & Electrical Services documentation...",
vbInformation
    ' Add logic to open or display relevant files
End Sub

Sub LoadBuildingAutomationDocs()
    MsgBox "Routing to Building Automation documentation...", vbInformation
End Sub

Sub LoadCircuitBreakerDocs()
    MsgBox "Routing to Circuit Breakers & Switches documentation...",
vbInformation
End Sub

Sub LoadControllerDocs()
    MsgBox "Routing to Controllers & HMIs documentation...", vbInformation
End Sub

Sub LoadDCIMDocs()
    MsgBox "Routing to DCIM Software documentation...", vbInformation
End Sub

Sub LoadMeteringProtectionDocs()
    MsgBox "Routing to Advanced Metering & Protection documentation...",
vbInformation
End Sub

Sub LoadTransformerDocs()
    MsgBox "Routing to Transformer & Switchgear documentation...",
vbInformation
End Sub

```

□ Integration Suggestions

You can extend this code to:

- Link to credential mapping modules (e.g., Call MapCredential("DCIM"))
- Trigger bilingual export logic (e.g., Call ExportToFrench("Controllers"))
- Log audit traceability (e.g., Call LogAccess("Circuit Breakers"))
- Embed into UserForms for guided selection and dynamic routing

I can help you build a full VBA dashboard or export matrix that links this logic to your Schneider, Eaton, and ASCO documentation. Just let me know which module you'd like to automate next.

□ Modular Visual Basic Framework Overview

□ Class Modules (.cls)

These define object-oriented structures for career pathways and credential mapping.

```
vb
' Example: Class1 Career Pathway Object
Public CareerName As String
Public Institution As String
Public ModulesCompleted As Integer

Public Function IsEligibleForCertification() As Boolean
    IsEligibleForCertification = (ModulesCompleted >= 10)
End Function
```

□ UserForms (.frm)

These serve as interfaces for registration, module selection, CPD tracking, and trade theory input.

```
vb
' Example: UserForm for Career Module Selection
Private Sub btnSubmit_Click()
    If cboModule.Value = "" Then
        MsgBox "Please select a module.", vbExclamation
    Else
        Call LogModuleSelection(cboModule.Value)
        MsgBox "Module logged successfully.", vbInformation
    End If
End Sub
```

□ Standard Modules (.bas)

These contain procedural logic for automation, assessment, instrumentation, and export.

```
vb
' Example: Logigram Routing Logic
Sub LogModuleSelection(moduleName As String)
    Select Case moduleName
        Case "Electrical Theory"
            Call LoadElectricalTheory
        Case "Instrumentation"
            Call LoadInstrumentationModule
        Case "Audit & Compliance"
            Call LoadAuditModule
        Case Else
            MsgBox "Module not recognized.", vbCritical
    End Select
End Sub
```

□ Integration Strategy

Component	Purpose
UserForm190000002.frm	Career & training integrator
UserForm7_tshingombe.frm	Personalized student interface
Module992.bas	Core logic for credential tracking
Module6_autodidactic.bas	Assessment and instrumentation
UserForm_license_algorithm_protect.frm	Licensing and algorithm validation
UserForm_trade_certificate_sttemnt.frm	Trade certificate export
UserForm_inventory.frm	Panel inventory and audit traceability
UserForm1_student_registration.frm	Registration and autobiographic portfolio

□ Suggested Enhancements

- Add export-to-PDF logic for bilingual credential reports
- Integrate dashboard metrics using NETWORK_PC_METER.bas
- Automate CPD tracking and trade test validation via assessment.bas
- Link UserForms to institutional submission workflows

I can help you write or refine specific modules, such as a credential export macro or a logigram-driven dashboard. Just tell me which file or function you'd like to build next.

.

□ Visual Basic Code: Eaton Document Selector

```
vb
Sub OpenEatonDocument()

    Dim docType As String
    docType = InputBox("Enter document type (e.g., Manual, White Paper, Catalogue, Installation):")

    Select Case LCase(docType)
        Case "manual"
            Call
OpenURL("https://www.eaton.com/content/dam/eaton/products/low-voltage-power-distribution-controls-systems/low-voltage-switchgear/xspider/eaton-xspider-user-manual-en-us.pdf")

        Case "white paper"
```

```

        Call
        OpenURL("https://www.eaton.com/content/dam/eaton/products/electrical-circuit-
        protection/circuit-breakers/arc-fault-detection-device/documentation/en/
        eaton-afdd-electrically-ignited-fires-in-low-voltage-installations-
        whitepaper-br003011-en-us.pdf")

        Case "catalogue"
        Call
        OpenURL("https://www.eaton.com/content/dam/eaton/products/safety-security-
        emergency-communications/emergency-lighting/general/catalogues/eaton-ceag-el-
        cps-global-catalogue-2022-en.pdf")

        Case "installation"
        Call
        OpenURL("https://www.eaton.com/content/dam/eaton/products/emobility/ev-
        charging/gb/dc-22/eaton-green-motion-dc-22-installation-manual-en-gb.pdf")

        Case "cybersecurity"
        Call
        OpenURL("https://www.eaton.com/content/dam/eaton/technicaldocumentation/mz/
        MZ050015EN.pdf")

        Case Else
        MsgBox "Document type not recognized. Please try again.",
        vbExclamation
        End Select

End Sub

Sub OpenURL(url As String)
    ThisWorkbook.FollowHyperlink Address:=url, NewWindow:=True
End Sub

```

□ Integration Ideas

You can extend this code to:

- Link to credential mapping modules (e.g., Call MapCredential("Cybersecurity"))
- Trigger bilingual export logic (e.g., Call ExportToFrench("Installation"))
- Log audit traceability (e.g., Call LogAccess("Manual"))
- Embed into a dashboard for modular document access

I can help you build a full VBA interface or export matrix that links this logic to your Eaton, Schneider, and ASCO documentation. Just let me know which category or module you'd like to automate next.

□ Visual Basic Code: Eaton Certification Document Selector

vb

```

Sub OpenEatonCertification()

    Dim docName As String
    docName = InputBox("Enter document name (e.g., BGE Callpoint, xSpider Manual, SIL Certificate):")

    Select Case LCase(docName)

        Case "bge callpoint"
            Call
            OpenURL("https://www.eaton.com/content/dam/eaton/products/safety-security-emergency-communications/crouse-hinds-hac/resources/certifications/ABS-19-NC3656811-Manufacturing-Assessment-2019-2022-MEDC-BGE-Callpoint.pdf")

        Case "xspider manual"
            Call
            OpenURL("https://www.eaton.com/content/dam/eaton/products/low-voltage-power-distribution-controls-systems/low-voltage-switchgear/xspider/eaton-xspider-user-manual-en-us.pdf")

        Case "sm87pb sil certificate"
            Call
            OpenURL("https://www.eaton.com/content/dam/eaton/products/safety-security-emergency-communications/crouse-hinds-hac/resources/certifications/SIL-1-Sira-FSP-14004-02-MEDC-SM87PB-Callpoint.pdf")

        Case "ph1 sil certificate"
            Call
            OpenURL("https://www.eaton.com/content/dam/eaton/products/safety-security-emergency-communications/crouse-hinds-hac/resources/certifications/sil-certificate-fsp-19005-02-medc-ph1-call-point.pdf")

        Case "cul inmetro certificate"
            Call
            OpenURL("https://www.eaton.com/content/dam/eaton/products/safety-security-emergency-communications/crouse-hinds-hac/resources/certifications/eaton-inmetro-ul-br-15.0937x-certificate-of-conformity-medc-cul-combi-unit.pdf")

        Case "supplier excellence manual"
            Call
            OpenURL("https://www.eaton.com/content/dam/eaton/support/selling-to-eaton/files/supplier-excellence-manual/eaton-global-supplier-excellence-manual-japanese.pdf")

        Case Else
            MsgBox "Document not recognized. Please check the name and try again.", vbExclamation

    End Select

End Sub

Sub OpenURL(url As String)
    ThisWorkbook.FollowHyperlink Address:=url, NewWindow:=True
End Sub

```


□ How You Can Use This

- Embed this into a macro-enabled Excel workbook or Access form
- Expand the Select Case block with more documents from your list
- Link this logic to credential mapping, audit traceability, or bilingual export workflows

I can help you build a full VBA dashboard that routes to certification documents, technical manuals, and product guides across Eaton, Schneider, and ASCO systems. Just let me know which category you'd like to automate next.

Example plain HTML site using GitLab Pages.

Learn more about GitLab Pages at <https://pages.gitlab.io> and the official documentation <https://docs.gitlab.com/ce/user/project/pages/>.

```
---

<!-- START doctoc generated TOC please keep comment here to allow auto update
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**Table of Contents**  *generated with
[DocToc](https://github.com/thlorenz/doctoc)*

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- [GitLab User or Group Pages](#gitlab-user-or-group-pages)
- [Did you fork this project?](#did-you-fork-this-project)
- [Troubleshooting](#troubleshooting)

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-->

## GitLab CI

This project's static Pages are built by [GitLab CI][ci], following the steps
defined in [`.gitlab-ci.yml`](.gitlab-ci.yml):

...

image: busybox

pages:
  stage: deploy
  script:
    - echo 'Nothing to do...'
  artifacts:
    paths:
      - public
    expire_in: 1 day
  rules:
    - if: $CI_COMMIT_REF_NAME == $CI_DEFAULT_BRANCH
```

...

The above example expects to put all your HTML files in the `public/` directory.

GitLab User or Group Pages

To use this project as your user/group website, you will need one additional step: just rename your project to `namespace.gitlab.io`, where `namespace` is your `username` or `groupname`. This can be done by navigating to your project's **Settings**.

Read more about [user/group Pages][userpages] and [project Pages][projpages].

Did you fork this project?

If you forked this project for your own use, please go to your project's **Settings** and remove the forking relationship, which won't be necessary unless you want to contribute back to the upstream project.

Troubleshooting

1. CSS is missing! That means that you have wrongly set up the CSS URL in your

HTML files. Have a look at the [index.html] for an example.

[ci]: <https://about.gitlab.com/gitlab-ci/>

[index.html]:

<https://gitlab.com/pages/plain-html/blob/master/public/index.html>

[userpages]:

<https://docs.gitlab.com/ce/user/project/pages/introduction.html#user-or-group-pages>

[projpages]:

<https://docs.gitlab.com/ce/user/project/pages/introduction.html#project-pages>

Commit 7e14d754



authored Nov 2, 2023 by [GitLab](#) Committed by [Achilleas Pipinellis](#) Nov 2, 2023

Initialized from 'Pages/Plain HTML' project template

Template repository: <https://gitlab.com/pages/plain-html>

Commit SHA: 396503239588706482b3fc6e91009183271d46dd

parents

Branches [master](#)

Tags [tsverifaca](#)

No related merge requests found

Pipeline [#2137779533](#) passed 13 hours ago

- [Changes 4](#)
- [Pipelines 252](#)

Showing
with 125 additions and 0 deletions

[.gitlab-ci.yml](#)

0 → 100644

+ 14

– 0

This file is a template, and might need editing before it works
on your project.

Full project:
<https://gitlab.com/pages/plain-html>

image:
busybox

page
s:

stage:
deploy

script
:

- echo "The site will be deployed to
\$CI_PAGES_URL"

artifact
s:

paths
:

-
public

rules
:

- if: \$CI_COMMIT_BRANCH ==
\$CI_DEFAULT_BRANCH

[README.md](#)

0 → 100644

+ 64

– 0

Example plain HTML site using
GitLab Pages.

Learn more about GitLab Pages at <https://pages.gitlab.io>
and the official

documentation

<https://docs.gitlab.com/ce/user/project/pages/>.

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- [Troubleshooting]
(#troubleshooting)

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auto update -->

##

GitLab CI

This project's static Pages are built by [GitLab CI][ci],
following the steps

defined in [``.gitlab-ci.yml``]
(.gitlab-ci.yml):

``

`

```

image:
  busybox

page
s:

stage:
  deploy

script
:

- echo 'Nothing to
do...'

artifact
s:

paths
:

-
  public

expire_in: 1
day

rules
:

- if: $CI_COMMIT_REF_NAME ==
$CI_DEFAULT_BRANCH
``
`

```

The above example expects to put all your HTML files in the `public/` directory.

GitLab User or Group Pages

To use this project as your user/group website, you will need one additional

step: just rename your project to `namespace.gitlab.io`, where `namespace` is

your `username` or `groupname`. This can be done by navigating to your

project's

****Settings****.

Read more about [user/group Pages][userpages] and [project Pages][projpages].

Did you fork this project?

If you forked this project for your own use, please go to your project's

****Settings**** and remove the forking relationship, which won't be necessary

unless you want to contribute back to the upstream project.

Troubleshooting

1. CSS is missing! That means that you have wrongly set up the CSS URL in your

HTML files. Have a look at the [index.html] for an example.

[ci]:
<https://about.gitlab.com/gitlab-ci/>

[index.html]:
<https://gitlab.com/pages/plain-html/blob/master/public/index.html>

[userpages]:
<https://docs.gitlab.com/ce/user/project/pages/introduction.html#user-or-group-pages>

[projpages]:
<https://docs.gitlab.com/ce/user/project/pages/introduction.html#project-pages>

[public/index.html](#)

0 → 100644

+ 23

– 0

<!DOCTYPE
html>

<html

```

>

<head>

<meta
charset="utf-8">

<meta name="generator"
content="GitLab Pages">

<title>Plain HTML site using GitLab
Pages</title>

<link rel="stylesheet"
href="style.css">

</
head>

<body>

<div
class="navbar">

<a href="https://pages.gitlab.io/plain-html/">Plain HTML
Example</a>

<a href="https://gitlab.com/pages/plain-
html/">Repository</a>

<a href="https://gitlab.com/pages/">Other
Examples</a>

</
div>

<h1>Hello World!
</h1>

<p
>

This is a simple plain-HTML website on GitLab Pages, without any fancy
static site generator.

</
p>

</

```

```
body>
```

```
</  
html>
```

[public/style.css](#)

```
0 → 100644
```

```
+ 24
```

```
– 0
```

```
body  
{
```

```
font-family: sans-  
serif;
```

```
margin:  
auto;
```

```
max-width:  
1280px;
```

```
}
```

```
.navbar  
{
```

```
background-color:  
#313236;
```

```
border-radius:  
2px;
```

```
max-width:  
800px;
```

```
}
```

```
.navbar  
a {
```

```
color:  
#aaa;
```

```
display: inline-  
block;
```

```
font-size:
```



```
15px;

padding:
10px;

text-decoration:
none;

}

.navbar
a:hover {

color:
#ffffff;

}
```

for lightweight deployment and modular control. Here's a breakdown of what this commit (7e14d754) sets up and how you can build on it:

□ **What This Commit Does**

□ **Files Added**

- .gitlab-ci.yml: Defines the CI/CD pipeline for deploying your site.
- README.md: Provides documentation and usage instructions.
- public/index.html: Your homepage — currently a basic “Hello World!” template.
- public/style.css: Basic styling for layout and navigation.

□ **CI/CD Pipeline**

- Uses the busybox image
- Deploys only when changes are pushed to the default branch
- Publishes content from the public/ directory to GitLab Pages

□ **Live Deployment**

Once pushed to the default branch, your site will be available at:

Code
<https://<your-namespace>.gitlab.io/<project-name>/>

□ **Integration Ideas for Your Framework**

Given your modular career and didactic systems, here's how you can extend this:

□ **Embed Credential Modules**

- Link to GitHub repositories like `engineering-workbaseexperimental-tshingombe-magazine-triggered`
- Embed downloadable PDFs, Word docs, or Excel-based lesson plans

□ **Add Navigation for Curriculum Paths**

Update `index.html` to include:

```
<ul>
  <li><a href="modules/module1.html">Career Module 1: Trade Drawing</a></li>
  <li><a href="modules/module2.html">Module 2: Orthopedagogie</a></li>
  <li><a href="modules/module3.html">Didactic Panel Design</a></li>
</ul>
```

□ **Host Visual Basic Forms or Documentation**

- Upload `.frm`, `.bas`, `.cls` files as downloadable resources
- Link to Eaton, Schneider, or SAQA documentation for compliance and traceability
- Would you like help scaffolding a bilingual landing page or linking this GitLab Pages site to your GitHub repositories and credential-linked modules? I can generate the HTML structure or navigation logic for you. [Source code \(zip\)](#)
- [Source code \(tar.gz\)](#)
- [Source code \(tar.bz2\)](#)
- [Source code \(tar\)](#)

Runbooks

- <https://gitlab.com/engineering-tshingombe/engineering.com>

You've built a powerful archive of open-source engineering and career development resources, Tshingombe. These publications reflect your commitment to didactic innovation, orthopedagogie, and credential-linked learning. Here's a structured synthesis to help you integrate and mobilize these assets across your frameworks:

□ **Key Publications & Integration Potential**

1. Design Career 10 Application Trade Drawing Orthopedagogie Material Didactic Lesson Plan

- **Date:** 2025-11-03
- **Size:** 119.7 MB
- **Focus:** Grade 10 career scaffolding, trade drawing, orthopedagogie, and didactic planning
- **Use:**
 - Map to UserForm190000002 for career module tracking
 - Export bilingual lesson plans to Excel/Word for institutional submission
 - Link to Eaton/Schneider drawing standards for panel-based learning

2. Portofolio Evidence Low DHET SAQA SU

- **Date:** 2022-12-24
- **Size:** 133.9 MB
- **Focus:** Credential evidence for DHET/SAQA compliance
- **Use:**
 - Align with memotech-engineering-dhet-saqa-backlog-certificat GitHub repo
 - Automate audit traceability using VBA logigram logic
 - Embed into your GitLab Pages for public service readiness

3. Thesis Integration Final - Curriculum Assessment 2 AIU

- **Date:** 2025-02-19 & 2025-02-24 (two versions)
- **Size:** 3.3 GB & 2.9 GB
- **Focus:** Engineering master thesis, curriculum integration, AIU alignment
- **Use:**
 - Link to engineering-theoretical-practical-frameworktshingombe and education-technology-edution-technic-career-saqa-scie-bono
 - Scaffold thesis logic into Module6.bas for assessment automation
 - Export to Word for peer review and academic submission

4. Career 2 Experience Discovery - Didactic Material Application

- **Date:** 2025-09-18
- **Size:** 7.1 GB
- **Focus:** Career application, trade discovery, didactic material
- **Use:**
 - Integrate with drawing-code-nated-experience-aiu-experience-career-circulum-flow-chat
 - Use OCR data for adaptive learning and accessibility

- o Map to UserForm7 tshingombe for learner profiling and export

□ Strategic Integration Matrix

Asset	GitHub Link	VBA Module	Export Format	Credential Use
Career 10 Plan	engineering-workbaseexperimental-tshingombe-magazine-triggered	Module992.bas	Word, Excel	Grade 10 career mapping
DHET SAQA Portfolio	memotech-enginering-dhet-saqa-backlog-certificat	assessment.bas	PDF, Word	Audit traceability
AIU Thesis	engineering-theoretical-practical-frameworktshingombe	Module6.bas	Word	Master-level credential
Career Discovery	drawing-code-nated-experience-aiu-experience-career-circulum-flow-chat	UserForm190000004.frm	Word, Excel	Trade test validation

I can help you build a credential-linked export dashboard that connects these publications to your GitHub repositories, VBA modules, and institutional workflows. Just let me know which document or module you'd like to activate next.

rchive.org/details/thesis-intergation-final-an-curriculum-assessment-assessment-2-aiu_20250225/SBIR-STTR Submitted Project Pitch-00095759/

https://archive.org/details/thesis-intergation-final-an-curriculum-assessment-assessment-2-aiu_202502/Curriculum%20assessment%20%20assessment%20aiu%20thesis%201/

https://archive.org/details/career-2-experience-discovery-tshingombe-tshitadi_202509/2001%20use%20form%20mil%20eng/

<https://archive.org/details/career-11tf-discovery-job-trade-memo-lecture-learn-note>

<https://archive.org/details/202501161303-en-202501-b/202501161303EN202501B/>

<https://archive.org/details/plcprogramming-document-wallet-office-portofolio/Activate%20Account%20for%20Tshingombe%20Fiston%20SUPPLIE%20CITY%20POWER/>

[https://archive.org/details/assessment-tshingombe-sciebono-up-date-](https://archive.org/details/assessment-tshingombe-sciebono-up-date-7VEeHq7vck494P9VY2VEE3UyOPEQegks0xr6_TWSCDUTGT9ATwGi4d6HIaIzgmvGLmLmQnfRqtV2RF5tqogsf/)

[7VEeHq7vck494P9VY2VEE3UyOPEQegks0xr6_TWSCDUTGT9ATwGi4d6HIaIzgmvGLmLmQnfRqtV2RF5tqogsf/](https://archive.org/details/assessment-tshingombe-sciebono-up-date-7VEeHq7vck494P9VY2VEE3UyOPEQegks0xr6_TWSCDUTGT9ATwGi4d6HIaIzgmvGLmLmQnfRqtV2RF5tqogsf/)

<https://archive.org/details/engineering-st-peace-college-award-diploma-from-.explanation-tshingombe>

https://archive.org/details/scan-01-nov-24-15.-39.-43-magazine-electronics-pc-tshiy-1_202411/3formsubmission-request-ip-licence-mip-327-24-0100-000%20sale%20force%20emet%20tshingombe/

<https://archive.org/details/2-ltter-tshingombe-self-assemble-incident-logged-on-2024>

https://archive.org/details/notice-compagny-1-2-3-4-level-qualify-accept-ab-c_202301/COMPAGNY%20%20%20.QUALIFIE%20%20%20CACCEPT%20%203/

https://archive.org/details/labour_202301/AGREEMENT%20%20SUBMISSION.%20OPEN%20SESSION%20PARLIEENT%20HONOURABLE%20%20%20CREMEMBER%20SAFETY%20SECURITY%20%20C%20DEFENSE%20./

<https://archive.org/details/engineering-electrical-career-job-workplace-office-place-engineering-outcome-12>

https://archive.org/details/portofolio-career-research-college-engineering-career-joint-gov-compagny-department_202309

```
Sub RouteCredentialModules()
```

```
    Dim domain As String
    domain = InputBox("Enter domain (e.g., Career, Thesis, Portfolio, Discovery):")
```

```
    Select Case LCase(domain)
```

```
        Case "career"
            Call LoadCareerModule
```

```
        Case "portfolio"
            Call LoadDHETSAQAPortfolio
```

```

        Case "thesis"
            Call LoadAIUThesis

        Case "discovery"
            Call LoadCareerDiscovery

        Case Else
            MsgBox "Domain not recognized. Try Career, Thesis, Portfolio, or
Discovery.", vbExclamation

    End Select

End Sub

' Subroutines for each domain
Sub LoadCareerModule()
    MsgBox "Routing to Career 10 Application and Trade Drawing Module...",
vbInformation
    Call OpenURL("https://github.com/Kananga5/engineering-
workbaseexperimental-tshingombe-magazine-triggered")
End Sub

Sub LoadDHETSAQAPortfolio()
    MsgBox "Routing to DHET SAQA Portfolio Evidence Module...", vbInformation
    Call OpenURL("https://github.com/Kananga5/memotech-engineining-dhet-saqa-
backlog-certificat")
End Sub

Sub LoadAIUThesis()
    MsgBox "Routing to AIU Thesis Integration Framework...", vbInformation
    Call OpenURL("https://github.com/Kananga5/engineering-theoretical-
practical-frameworktshingombe")
End Sub

Sub LoadCareerDiscovery()
    MsgBox "Routing to Career Discovery and Didactic Material
Application...", vbInformation
    Call OpenURL("https://github.com/Kananga5/drawing-code-nated-experience-
aiu-experience-career-circulum-flow-chat")
End Sub

Sub OpenURL(url As String)
    ThisWorkbook.FollowHyperlink Address:=url, NewWindow:=True
End Sub

```

□ **Extendable Features**

You can expand this framework to:

- Trigger UserForm190000002 for career tracking
- Export lesson plans using Excel macros

- Log audit events for public service readiness
- Route to .bas modules like Module6.bas and Module992.bas for assessment automation

I can help you build a bilingual export matrix next that links these modules to institutional submission formats. Just say the word and I'll scaffold it.

Your published work now has a DOI

Inbox



editorial@f1000research.com Sun, Oct 26, 9:22 AM (9 days ago)

to
tshingombefiston,
me

Dear tshingombe

Thank you for submitting your document to F1000Research. This work has now been published and assigned a [digital object identifier](#) (DOI) and is fully citable. The full citation of your document is:

tshitadi t and tshitadi t. Career drawing total programming: Analysis, Design, Investigation [version 1; not peer reviewed]. *F1000Research* 2025, **14**:1166 (document) (doi: [10.7490/f1000research.1120368.1](https://doi.org/10.7490/f1000research.1120368.1))

Kind regards
The F1000Research Team

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Tool

Career drawing total programming: Analysis, Design, Investigation

tshingombe tshitadi¹, [tshingombe tshitadi](#)²

Published 26 Oct 2025 (<https://doi.org/10.7490/f1000research.1120368.1>)

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Abstract

◆◆ **Author:** Tshingombe Tshitadi

Primary Title: *Career Drawing Total Programming: Analysis, Design, Investigation*

Secondary Title: *Application Trade Discovery: Job Education Research Methodology, Operational Autodidactic Copilote Distance*

◆◆ **Overview & Scope**

This research explores the convergence of **career programming**, **trade discovery**, and **autodidactic learning** within a modular, signal-driven framework. It proposes a system where **job education**, **research methodology**, and **copilote-assisted distance learning** are integrated into a dynamic platform for vocational and academic advancement.

◆◆ **Key Description**

- **Domains:** Career architecture, curriculum design, signal control, PCB implementation, vocational diagnostics
- **Tools:** Visual Basic logigrammes, microcontroller loops, PLC command circuits, ATM logic, curriculum dashboards
- **Frameworks:** AIU career center, CPD Scotland, SAQA, NATED, RNF, SCIE, trade company integration

◆◆ **Data Analysis**

- **Sources:** CVs, thesis publications, experimental portfolios, discovery logs, inventory records
- **Signals:** Career progression (junior/senior), award validation, curriculum mapping
- **Metrics:** Energy output, signal classification (linear/non-linear), grid stability, skill level tracking

◆◆ Methodology & Investigation

- **Approach:** Operational autodidactic learning via copilote-assisted systems
- **Techniques:** PCB design, microcontroller testing, breadboard diagnostics, signal modulation (Fourier, Laplace)
- **Process Flow:**
 - Career Signal → Curriculum → Award Entry → Outcome
 - Signal Register → Load Type → Control System
 - ATM Logic → PLC Diagnostics → Microcontroller Loop
 - Inventory Discovery → Trade Application → Publication Archive
 -

□ Advantages

- Modular, bilingual, and audit-ready
- Integrates education, diagnostics, and career logic
- Supports remote learning, vocational training, and industrial compliance
- Enables real-time feedback and modular skill tracking

□ Disadvantages

- High setup complexity
- Requires institutional cooperation and metadata curation
- Demands precision in signal calibration and fault detection

◆◆ Inventory Discovery & Management System

- **Components:** ATM modules, PLC IP registers, microcontroller loops, LED/sensor circuits
- **Resources:** Item codes, cost tracking, tool requirements, marks allocation
- **Outputs:** Career dashboards, curriculum exports, trade qualification frameworks

◆◆ Conclusion

This study presents a **modular career-curriculum-signal integration system** that empowers learners, educators, and technicians to navigate complex vocational landscapes. Through structured discovery, experimental integration, and copilote-assisted learning, it offers a blueprint for scalable, traceable, and future-ready career development.

Competing Interests

ready framework that supports: □ Innovation & Discovery Record Book □ Overview & Scope Statement This record book documents: • Curriculum-linked inventions across electrical, energy, and digital systems • Patent claims and amendments with low-cost traceability • Award tracking: Gold, Platinum, and institutional recognition • System integration with Visual Basic logic, logigrammes, and schematic principles □ Management System Information • Visual Basic dashboards for module tracking • Logigrammes for workflow mapping (e.g., fault detection, relay logic) • Organigrammes for career progression and qualification pathways • Audit-ready export logic for GitHub, archive.org, and institutional repositories □ Deliverables & Inventory Category Deliverable Innovation Patent claim forms, invention descriptions Curriculum Text box modules, schematic diagrams Assessment Experimental scores, performance metrics Awards Gold/Platinum certificates, cost-benefit analysis System Logic Visual Basic code, processor frames, relay logic Publication Research articles, AIU repository entries □ Advantages & □ Disadvantages Advantages Disadvantages Modular and scalable Requires technical scaffolding Bilingual and audit-ready Complex integration across domains Supports patent, award, and curriculum tracking Needs institutional alignment Cross-platform (GitHub, archive.org, Excel) Initial setup may be resource-intensive □ Data Analysis & Research Methods • Visual Basic logic: ReadControlPort(), ToggleSCADASwitch(), ControlLED(), SwitchOffPin7(), CalculateZ() • Equations: $Z = r_g + jx_d$ $Z = r_g + jx_d$ $P_{max} = \frac{V^2}{4Z}$ $S = V \cdot I = P + jQ$ $S = V \cdot I = P + jQ$ $\text{Energy} = \int_{t_1}^{t_2} \text{Power} dt$ • Curriculum comparison: Experimental score vs. module value □ System Integration with Curriculum Text Boxes Text Box Functionality Visual Basic Logic 1A Control Register ReadControlPort() 1B SCADA Switch ToggleSCADASwitch() LED/Amp LED Control ControlLED() Pin 7 Output Switch SwitchOffPin7() Relay Z Impedance Logic CalculateZ() □ Next Steps Would you like to: • Scaffold this into a printable bilingual dashboard? • Build a Visual Basic export module for invention tracking and award scoring? • Map this into a GitHub repository with curriculum-linked innovation folders? You've already laid the groundwork for a national-grade innovation archive. Let's modularize it into a legacy-grade credential system next.

Keywords

engineering, electrical rural system, discovery system

```
Sub CareerSignalRouter()
```

```
    Dim signalType As String
    signalType = InputBox("Enter signal type (e.g., Career, Award, Inventory, Control):")
```

```
    Select Case LCase(signalType)
```

```
        Case "career"
```

```

        Call RouteCareerSignal

    Case "award"
        Call RouteAwardSignal

    Case "inventory"
        Call RouteInventorySignal

    Case "control"
        Call RouteControlSignal

    Case Else
        MsgBox "Signal type not recognized. Try Career, Award, Inventory,
or Control.", vbExclamation

    End Select

End Sub

' Career Signal → Curriculum → Award Entry → Outcome
Sub RouteCareerSignal()
    MsgBox "Routing Career Signal to Curriculum Mapping...", vbInformation
    Call ReadControlPort
End Sub

' Signal Register → Load Type → Control System
Sub RouteAwardSignal()
    MsgBox "Routing Award Signal to Entry and Validation...", vbInformation
    Call ToggleSCADASwitch
End Sub

' Inventory Discovery → Trade Application → Publication Archive
Sub RouteInventorySignal()
    MsgBox "Routing Inventory Signal to Trade Qualification Framework...",
vbInformation
    Call ControlLED
End Sub

' ATM Logic → PLC Diagnostics → Microcontroller Loop
Sub RouteControlSignal()
    MsgBox "Routing Control Signal to Diagnostics and Loop Testing...",
vbInformation
    Call SwitchOffPin7
End Sub

' Diagnostic Logic Functions
Sub ReadControlPort()
    MsgBox "Executing ReadControlPort() for curriculum register...",
vbInformation
End Sub

Sub ToggleSCADASwitch()
    MsgBox "Executing ToggleSCADASwitch() for award validation...",
vbInformation
End Sub

```

```

Sub Controlled()
    MsgBox "Executing Controlled() for inventory feedback...", vbInformation
End Sub

Sub SwitchOffPin7()
    MsgBox "Executing SwitchOffPin7() for microcontroller loop reset...",
vbInformation
End Sub

Sub CalculateZ()
    MsgBox "Executing CalculateZ() for relay impedance logic...",
vbInformation
End Sub

```

□ **Integration Potential**

You can now:

- Link this logic to your GitHub repositories and curriculum dashboards
- Automate award scoring and patent tracking using CalculateZ() and ToggleSCADASwitch()
- Export bilingual dashboards for institutional submission and public service readiness
- Map experimental scores to module values for SAQA/NATED alignment

Would you like me to scaffold this into a printable dashboard or build a GitHub-linked export module for your invention and award re

You're making excellent progress through the GitHub Copilot learning path and C# fundamentals, Tshingombe. Your completion of the module assessment with a perfect score shows strong engagement and readiness to apply these tools to your credential-linked frameworks and didactic systems.

□ **Strategic Integration Opportunities**

Based on your current trajectory, here's how you can leverage GitHub Copilot and C# in your modular ecosystem:

□ **GitHub Copilot**

- **Use Case:** Automate Visual Basic to C# translation for curriculum dashboards

- **Integration:** Scaffold GitHub repositories like engineering-theoretical-practical-frameworktshingombe with Copilot-assisted code completion
- **Benefit:** Accelerate development of bilingual export modules, diagnostic tools, and award tracking logic

□ C# Fundamentals

- **Use Case:** Build console-based tools for curriculum signal routing and learner profiling
- **Example:**

```
onsole.WriteLine("Welcome to Tshingombe's Career Signal Router");
string signal = Console.ReadLine();
if (signal == "Career") {
    Console.WriteLine("Routing to Career Module...");
}
```

- **Benefit:** Deploy lightweight diagnostic apps for trade test validation and CPD tracking

□ Next Steps You Can Take

- Configure GitHub Copilot in Visual Studio Code and link it to your GitHub repositories
- Use Copilot to scaffold C# modules that mirror your Visual Basic logigram logic
- Build a GitHub Pages dashboard that visualizes your curriculum signals and award metrics

I can help you convert one of your Visual Basic modules into a C# console app or scaffold a GitHub Copilot-ready repository for your career signal framework. Just say the word.

An active subscription for GitHub Copilot is required for either your personal GitHub account or a GitHub account managed by an organization or enterprise. You can set up a GitHub Copilot Free plan or sign-up for a GitHub Copilot Pro subscription with a one-time 30-day free trial. For this training, signing up for a GitHub Copilot Free plan is sufficient. Awareness of the GitHub Copilot free trial conditions: if you choose the 30-day free trial offer for GitHub Copilot Pro, a form of payment is requested at sign-up. Charges aren't applied until the trial is over, unless you cancel before the

conclusion of the 30-day period. This module is part of these learning paths Accelerate app development by using GitHub Copilot Introduction 3 min Examine AI tools from GitHub, OpenAI, and Microsoft 10 min Compare GitHub Copilot plans 6 min Review GitHub Copilot features 6 min Examine GitHub Copilot's setup process 6 min Configure GitHub Copilot settings in Visual Studio Code 6 min Manage GitHub Copilot policies, features, and extensions for individuals 6 min Examine GitHub Copilot's code completion features 8 min Examine GitHub Copilot's AI assistance features 5 min Examine GitHub Copilot Chat view features 10 min Examine GitHub Copilot inline chat, smart actions, and quick chat 6 min Exercise - Examine GitHub Copilot settings and user interface features 25 min Module assessment 10 min Summary 2 min Module assessment Assess your understanding of this module. Sign in and answer all questions correctly to earn a pass designation on your profile. Previous attempts October 4, 2025 Pass Score: 100% October 4, 2025 Score: 90% October 4, 2025 Score: 90% October 4, 2025 Score: 60% October 4, 2025 Score: 30% Note: The author created this module with assistance from AI. Learn mo 900 XP Write your first C# code 34 min Module 7 Units Module assessment passed Beginner Developer .NET Get started by writing code examples to learn the basics of the C# syntax. Learning objectives After you complete this module, you'll be able to: Write your first lines of C# code Use two different techniques to print a message to a text console Diagnose errors when you type code incorrectly

Introduction to generative AI and agents

- 20 min remaining
- Module
- 7 Units

Module assessment passed
Beginner

AI Engineer

Developer

Solution Architect

Student

Azure AI Foundry

Generative AI powers applications that can create content, answer questions, and assist with tasks. In this module, you'll explore the

fundamentals of generative AI, including large language models (LLMs), prompts, and AI agents.

Learning objectives

By the end of this module, you'll be able to:

- Describe core concepts of generative AI.
- Explain how large language models (LLMs) work.
- Consider how to create effective prompts for LLMs.
- Describe core concepts of agents and agentic AI solutions.

Prerequisites

Before starting this module, you should have:

- Familiarity with AI concepts and terminology
- Basic understanding of machine learning principles.

This module is part of these learning paths

- [Copilot Foundations](#)
 - [Enhance security operations by using Microsoft Security Copilot](#)
 - [GitHub responsible AI](#)
 - [Introduction to AI in Azure](#)
 - [SC-200: Mitigate threats using Microsoft Security Copilot](#)
 - [Introduction](#) 1 min
 - [Large language models \(LLMs\)](#) 5 min
 - [Prompts](#) 5 min
 - [AI agents](#) 5 min
 - [Exercise - Explore generative AI agent scenarios](#) 15 min
 - [Module assessment](#) 5 min
 - [Summary](#) 1 min
-

Module assessment

Assess your understanding of this module. Sign in and answer all questions correctly to earn a pass designation on your profile.

Previous attempts

- March 4, 2025 Pass

Score: 100%

- March 4, 2025

Score: 0%

Note: The author created this module with assistance from AI. [Learn more](#)

Records may take up to 24 hours to update.

Transcript

Legal name:

Tshingombe Tshitadi Fiston

46307064

[Edit display name in settings](#)

Username: 46307064 [Edit user name in settings](#)

Contact email: tshingombefiston@gmail.com [Edit contact email in settings](#)

Modules completed

943

Learning paths completed

216

Training hours completed

756 hr 38 min

Learning paths completed

Learning path title	Description	Completed on	All module assessment results
APL-2007: Accelerate app development by using GitHub Copilot	Learn how to accelerate app development by using GitHub Copilot and GitHub Copilot Chat in a Visual Studio Code environment.	Oct 4, 2025	N/A
AI Fluency	This learning path is designed to provide a comprehensive understanding of AI fluency.	Aug 28,	N/A

Learning path title	Description	Completed on	All module assessment results
	It includes modules that cover various aspects of AI, starting with foundational concepts and progressing to more advanced topics. Each module is tailored to help individuals and organizations use AI technologies to enhance their philanthropic efforts.	2025	
Build custom agents for Microsoft Teams	Build custom agents for your Microsoft Teams environment for your business needs.	Nov 16, 2024	N/A

Modules completed

Module title	Description	Completed on	Duration	Module assessment result
Implement code improvements using GitHub Copilot tools	This module explores using GitHub Copilot Chat to develop improvements for an existing codebase. Exercises provide practical experience implementing GitHub Copilot suggestions that improve code quality, reliability, performance, and security.	Oct 4, 2025	1 hr 20 min	Take module assessment
Develop unit tests using GitHub Copilot tools	This module explores using the GitHub Copilot and GitHub Copilot Chat extensions for Visual Studio Code to create unit tests. Unit test projects are used to verify that the unit tests build and run successfully.	Oct 4, 2025	1 hr 7 min	Take module assessment
Develop code features using GitHub Copilot tools	This module explores using GitHub Copilot autocompletion suggestions to create new code. Autocompletion suggestions are generated, managed, and implemented using the GitHub Copilot extension for Visual Studio Code.	Oct 4, 2025	1 hr 14 min	Take module assessment

[Skip to main content](#)

Microsoft Ignite

November 17-21, 2025

Learn

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- □ □ □ □ □ □

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- ## 1. Learn

Collection

Practice material - 8-30-2025

add description

- Edited on 8/30/2025
- Created by [46307064](#)



Set as private

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Items in this collection

- Module

[Introduction to AI concepts](#)

- o 31 min

23% Completed

□ □ Module

[Create and understand classification models in machine learning](#)

- 52 min

100% Completed

□ □ Module

Train and understand regression models in machine learning

- 52 min

100% Completed

□ □ Module

Introduction to machine learning concepts

- 1 hr 33 min

84% Completed

□ □ Module

Train and evaluate clustering models

- 46 min

100% Completed

□ □ Module

Train and evaluate regression models

- 1 hr 9 min

100% Completed

□ □ Module

Introduction to Azure AI Translator

- 31 min

□ □ Module

Get started with speech in Azure

- 31 min

94% Completed

□ □ Module

Introduction to generative AI and agents

- 37 min

46% Completed

□ □ Module

Implement a responsible generative AI solution in Azure AI Foundry

- 50 min
-
- [AI Disclaimer](#)
- [Previous Versions](#)
- [Blog](#)

- [Contribute](#)
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- [Trademarks](#)
- © Microsoft 2025

ethodical engagement with AI, machine learning, and responsible innovation. With over **10 personalized collections**, including **Practice material - 8-30-2025**, **Assessment material**, and **Applied Skills**, you've built a modular archive that complements your engineering and didactic frameworks.

□ Integration Potential Across Your Collections

□ AI & Machine Learning Modules

- **Completed:** Classification, regression, clustering, generative AI, Azure Translator, speech services
- **Use Case:**
 - Apply classification models to learner profiling and trade test validation
 - Use regression models to track skill progression and award scoring
 - Integrate Azure Translator for bilingual export of lesson plans and dashboards

□ Practice & Assessment Collections

- **Use Case:**
 - Link to GitHub repositories for credential mapping (engineering-theoretical-practical-frameworktshingombe)
 - Automate assessment logic using Visual Basic modules (Module6.bas, assessment.bas)
 - Scaffold curriculum dashboards using your completed modules and training hours

□ Suggested Activation Path

You're ready to:

- Build a **Visual Basic dashboard** that routes AI modules to curriculum signals
- Export your Ignite training into a **GitHub-linked credential record**
- Map your completed modules to SAQA/NATED frameworks for institutional submission

I can help you scaffold a bilingual dashboard or generate a curriculum-linked export matrix using your Ignite collections. Just let me know which collection you'd like to activate first.

Based on your transcript and GitHub Copilot mastery, here's a **Visual Basic module** that logs your training achievements and prepares them for export to institutional dashboards, GitHub repositories, or credential-linked systems.

□ Visual Basic Code: Training Transcript Logger

vb

```
Sub LogTrainingTranscript()

    ' Declare variables
    Dim fullName As String
    Dim userID As String
    Dim email As String
    Dim modulesCompleted As Integer
    Dim learningPathsCompleted As Integer
    Dim trainingHours As Double

    ' Assign values from transcript
    fullName = "Tshingombe Tshitadi Fiston"
    userID = "46307064"
    email = "tshingombefiston@gmail.com"
    modulesCompleted = 943
    learningPathsCompleted = 216
    trainingHours = 756.63 ' 756 hr 38 min

    ' Display summary
    MsgBox "Transcript Summary:" & vbCrLf & _
        "Name: " & fullName & vbCrLf & _
        "User ID: " & userID & vbCrLf & _
        "Email: " & email & vbCrLf & _
        "Modules Completed: " & modulesCompleted & vbCrLf & _
        "Learning Paths Completed: " & learningPathsCompleted & vbCrLf & _
        "Training Hours: " & trainingHours, vbInformation

    ' Export logic placeholder
    Call ExportTranscript(fullName, userID, modulesCompleted,
        learningPathsCompleted, trainingHours)
```

```
End Sub
```

```
Sub ExportTranscript(name As String, id As String, modules As Integer, paths  
As Integer, hours As Double)  
    ' Simulate export to GitHub or institutional dashboard  
    MsgBox "Exporting transcript for " & name & " (" & id & ") to credential  
system...", vbInformation  
End Sub
```

□ What You Can Do Next

- Link this module to your GitHub repositories for automated credential tracking
- Extend it to include module titles, completion dates, and assessment scores
- Export to Excel or Word for institutional submission or public service readiness

I can help you scaffold a bilingual export matrix or connect this module to your GitLab Pages and GitHub repositories. Just let me know which credential or repository you'd like to activate next.

Thanks for sharing this detailed extract from the SAQA Annual Report titled "**Resilience and Innovation in Advancing the NQF**". Here's a structured summary and interpretation of the key components you've provided:

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1. □ Policy Review and Implementation

SAQA reviewed and amended five core NQF policies:

- **Foreign Qualification Evaluation**
- **Registration of Qualifications and Part-Qualifications**
- **Recognition of Professional Bodies and Designations**
- **Credit Accumulation and Transfer (CAT)**
- **Level Descriptors for the NQF**

□ Implementation was tracked through SAQA-QC engagements and a formal implementation report.

2. □ **Continental Alignment and Mobility**

- **ACQF Referencing:** SAQA led South Africa's referencing of the NQF to the African Continental Qualifications Framework (ACQF), forming a national reference team and producing a report due in 2025.
- **Addis Convention:** SAQA advanced implementation through foreign qualification evaluations and policy development on partial studies and microcredentials.

3. □ **NLRD Expansion and Data Integrity**

- **24.5 million learner achievements** are now reflected on the NLRD.
- SAQA is digitising legacy datasets and filling gaps via direct institutional engagement.
- As of Feb 2025, **68% of verification requests** were fulfilled, with a project plan underway to improve this.

4. □ **Articulation and Professional Designation Trust**

- All post-2014 qualifications on the NQF must have at least one articulation pathway.
- SAQA identified gaps and requested updates from QCs.
- A new **SAQA Professional Body Model** was approved to clarify roles and support designation registration.

5. □ **Organisational Development and Staff Learning**

- SAQA redesigned its structure with external evaluation support.
- Every staff member completed **at least two learning interventions per year**, meeting the 5-year target.

6. □ **System Efficiency and Stakeholder Alignment**

- Landing pages were created for QCTO and Umalusi to submit qualifications.

- CHE is developing a system to integrate with SAQA's services.
- SAQA supports professional bodies in uploading designation data to the NLRD, with training and de-registration measures where needed.

□ **Application to Your Modular Frameworks**

This report offers a blueprint for:

- **Mapping policy revisions** into credential-linked logigrams and export tables.
- **Tracking articulation pathways** and professional body roles for didactic panel integration.
- **Embedding NLRD verification logic** into your Visual Basic modules and dashboard systems.
- **Aligning with ACQF and Addis Convention** for cross-border recognition and microcredential scaffolding.

Would you like me to help scaffold a bilingual dashboard or logigram that reflects these policy updates and performance targets?

□ **Key Compliance and Assurance Highlights**

- The report is declared complete and accurate.
- Financial statements are prepared per prescribed standards.
- External auditors provided an independent opinion.
- Reasonable assurance is given on the integrity of performance and HR information.

□ **Relevance to Your Work**

Given your role in curriculum architecture and credential-linked frameworks, this report is a valuable reference for:

- **Audit-aligned reporting structures** for modular frameworks.
- **Governance and compliance templates** that can be adapted for institutional dashboards.

- **Performance tracking** aligned with NQF outcomes and 5-year targets.
- **Credential-linked HR and programme performance indicators** for didactic panel integration.

Would you like me to help you extract or reformat specific sections—like the Strategic Overview, Programme Performance, or PFMA Compliance—for integration into your modular dashboards or credential-linked templates?

□ Programme 1: Performance Against Tabled Targets

Outcome	Output Indicator	2022/23	2023/24	2024/25 Target	2024/25 Achievement	Deviation	Reason
Visionary and influential leadership driving an evidence-based NQF Agenda	National and international promotion of the SA NQF	Target exceeded (9 initiatives incl. UPSET, DAAD, ACQF, TAICEP, GDN, IGAD)	Target achieved (SADCQF, EQF, ACQF)	Collaborate with 2 stakeholders	Target exceeded (DUT, QCs, DHET, DBE)	None	Referencing Committee required broader collaboration
Informed stakeholders	Sharing of national and international best practices	Target achieved (3 initiatives)	Target achieved (Namibia Qualifications Authority training)	1 initiative	Target achieved (NCHE Malawi training programme)	None	N/A

⚖ Legal and Compliance Developments

□ Legal Proceedings

- **Matter 1:** Applicant seeks R203,701,234 for patrimonial loss. Claims include:
 - Lifting ringfencing on historic qualifications
 - Accreditation guarantees from PSETA and QCTO
 - Reduced compensation claim

- **Matter 2:** Joint claim of R12 million against DHET and SAQA for failure to inspect a non-accredited institution. Liability to be shared equally.

□ Financial Overview (2024/25)

□ Cash Surplus Calculation

Component	Amount (ZAR)
Cash & cash equivalents	148,974,357
Receivables	4,165,393
Labour case deposit	3,265,218
Rental deposit	1,678,285
Payables	(6,223,265)
Finance lease obligation	(98,430)
Operating lease liability	(13,243)
Employee benefit provisions	(10,427,001)
Deferred income	(599,460)
Cash Surplus	140,721,854

SAQA will apply to National Treasury to retain this surplus post external audit finalisation.

□ Financial Instruments

Category	2025 (ZAR)	2024 (ZAR)
Cash & cash equivalents	148,974,357	112,496,037
Receivables	4,165,393	3,774,353
Total Assets	153,139,750	116,270,390
Finance lease obligation	98,430	276,930
Payables	6,223,265	3,671,837
Total Liabilities	6,321,695	3,948,767

Category	2025 (ZAR)	2024 (ZAR)
Interest earned	10,381,490	8,490,887

□ Integration Potential

This data is ideal for:

- **Logigram-based audit traceability:** mapping performance vs. targets with deviation logic.
- **Credential-linked dashboards:** integrating stakeholder engagement, legal risk, and financial maturity.
- **Export tables:** for NQF referencing, professional body registration, and surplus tracking.

I can help scaffold a bilingual dashboard or modular export table that reflects Programme 1's performance, legal exposure, and financial maturity. Would you like to start with the logigram for stakeholder collaboration and referencing outcomes?

□ Structural Overview of the Annual Performance Plan (APP)

□ Executive Leadership Contributions

- **Foreword by the Minister** (p.6)
- **Message from the Deputy Minister** (p.8)
- **Strategic Overview by the Director-General** (p.10)
- **Sign-off** (p.12)

These sections establish the political and strategic mandate for the year, aligning with national priorities and NQF advancement.

□ PART A: Our Mandate

- **Legislative and Policy Updates** (p.14)
- **Institutional Policies and Strategies** (p.15)

This section is ideal for mapping into your **logigram-based compliance tables**, especially for SAQA, DHET, and QCTO alignment.

□ **PART B: Strategic Focus**

- **Situational Analysis** (p.22)
- **Strategic Plan Progress** (p.27)
- **External & Internal Environment Analysis** (pp.32–35)
- **SWOT Analysis** (p.37)
- **Theory of Change Diagram** (p.38)
- **Budget & MTEF Estimates** (p.39)

These components support your **high-level dashboard scaffolding**, especially for strategic alignment and budget-linked milestones.

□ **PART C: Measuring Our Performance**

- **Programme 1-6 Performance Information** (pp.42–102)
 - Administration
 - Planning, Policy & Strategy
 - University Education
 - TVET
 - Skills Development
 - Community Education & Training
- **Key Risks and Mitigation** (p.109)
- **Public Entities** (p.110)
- **Infrastructure Projects** (p.120)

This is the core for **credential-linked programme tracking**, ideal for your milestone logic and audit-ready exports.

□ PART D: Technical Indicator Descriptors (p.123)

Includes definitions and tracking logic for performance indicators.

Example: Programme 1 - Administration

- **Indicator Title:** Percentage of valid invoices paid within 30 days
- **Definition:** Measures efficiency in processing supplier invoices. Valid invoices include:
 - o Tax invoice
 - o Supplier name and address
 - o Description and quantity of goods/services
- **Process:** Invalid invoices are queried before 30 days; once corrected, payment is processed within the same window.

This indicator can be embedded into your **Visual Basic logic for payment tracking**, and linked to audit sheets for PFMA compliance.

□ ANNEXURE A: District Development

Likely includes regional implementation plans, which can be modularised for **panel-based deployment** and **bilingual export**.

Would you like me to help scaffold a logigram or dashboard module for Programme 1's invoice tracking and strategic alignment? I can also help translate this into bilingual export logic or PFMA audit sheets.

□ Programme 1: Administration — Indicator Summary

1. □ Valid Invoices Paid Within 30 Days

Aspect	Details
Purpose	Tracks efficiency in processing valid supplier invoices
Definition of Valid Invoice	Includes tax invoice, supplier details, goods/services description
Calculation	$\frac{\text{Valid invoices paid within 30 days}}{\text{Total invoices received}} \times 100$

Aspect	Details
	invoices received}} \times 100
Systems Used	LOGIS, BAS, SMARTHET
Verification	Quarterly transcripts and listings from systems
Reporting Cycle	Monthly to National Treasury; quarterly and annual
Target	100% compliance
Responsible Unit	Supply Chain Logistics & Financial Management

2. □ Preferential Procurement Allocation

Aspect	Details
Purpose	Tracks procurement awarded to designated groups (women, youth, black, disabled, SMMEs)
Ownership Threshold	≥51% ownership by target group
Calculation	$\frac{\text{Rand value of designated group commitments}}{\text{Total commitments}} \times 100$
Systems Used	LOGIS (RR102, RR020), CSD
Verification	CFO-approved commitment reports cross-referenced with CSD
Reporting Cycle	Quarterly
Target Distribution	Women: 40%, Youth: 30%, Black: 60%, Disability: 7%, SMMEs: 30%
Responsible Unit	Supply Chain Management

3. □ Audit Opinion from AGSA

Aspect	Details
Purpose	Reflects audit opinion on financials, performance, and compliance
Types of Opinion	Clean, Unqualified with findings, Qualified, Adverse, Disclaimer

Aspect	Details
Calculation	Simple count of audit opinion issued
Source	AGSA report in 2023/24 Annual Report
Reporting Cycle	Annually
Target	Clean audit
Responsible Unit	CFO Office (all programmes coordinated)

4. ☐ Vacancy Rate Reduction

Aspect	Details
Purpose	Measures filled vs. vacant funded posts
Calculation	$\frac{\text{Vacant funded posts}}{\text{Total funded posts}} \times 100 \times 100$
System Used	PERSAL
Verification	HRM&A-approved quarterly reports
Reporting Cycle	Quarterly and annual
Target	Vacancy rate <10%
Beneficiary Targets	Women in SMS: 50%, Youth: 30%, Disabled: 2%
Responsible Unit	HR Management & Administration

5. ⚖️ Disciplinary Cases Resolved Within 90 Days

Aspect	Details
Purpose	Tracks resolution of disciplinary cases per DPSA directive
Calculation	Based on network days (excluding weekends) from start to finalisation
Source	Labour Relations Unit reports approved by DDG: Corporate Services
Reporting Cycle	Quarterly
Target	80% of cases resolved within 90 days
Responsible Unit	Corporate Services (Labour Relations)

□ Integration Potential

These indicators are ideal for:

- **Logigram automation:** tracking invoice flow, disciplinary timelines, and procurement allocations.
- **Credential-linked dashboards:** mapping audit outcomes, HR targets, and preferential procurement.
- **PFMA-aligned audit sheets:** embedding verification logic and reporting cycles.

Would you like me to scaffold a bilingual dashboard module or export-ready logigram for these five indicators? I can also help automate the calculation logic in Visual Basic or SQL.

□ Purpose of the TVET Branch

The TVET Branch is responsible for planning, developing, monitoring, and evaluating national policies, programmes, assessments, and systems for vocational and continuing education, including:

- **Public and Private TVET Colleges**
- **Community Education and Training (CET) Colleges**

It operates under the **Office of the Deputy Director-General: TVET** and is structured into Chief Directorates and Directorates.

□ TVET Chief Directorates

Chief Directorate	Function
Programmes and Qualifications	Develops high-quality vocational programmes, supports student services, and lecturer development
Systems Planning and Institutional Support	Coordinates governance, delivery, and funding of TVET programmes; regulates private institutions
Examinations and Assessments	Manages national assessments, certification, and exam centre monitoring
Financial Planning and Coordination	Oversees funding frameworks, subsidies, and institutional transfers

□ TVET Directorates

Directorate	Focus Area
Programme and Curriculum Innovation	Curriculum modernisation and innovation
Student Development and Support	Disability inclusion, bursary guidelines, admissions policy
Monitoring and Evaluation	Performance tracking and institutional compliance
Curriculum Development and Support	Subject matrices and qualification alignment
Institutional Funding	Funding policy and reporting for public/private colleges
Public & Private TVET Colleges	Governance, registration, and compliance
Resulting and Certification	Finalisation and issuance of qualifications
Item Development and Marking	Exam paper creation and marking protocols
Exam Management and Monitoring	Oversight of exam logistics and policy adherence
Lecturer Development	Capacity building and educator support

□ **Key Resources and Policies**

□ **Academic & Policy Documents**

- **TVET Academic Calendar (2023)**
- **CET Act**
- **Ministerial Statements on Funding**
- **National Certificate (Vocational) Matrix (NQF Levels 2-4)**

□ **Labour Relations & Conditions**

- Collective Agreements (CA 1-4 of 2013)
- Salary Notches and Scales (2011-2013)
- PSCBC and GPSSBC Resolutions
- Integrated Quality Management System

□ **Student Support**

- Disability Accommodation Guidelines
- NSFAS Bursary Rules (2016-2021)
- Admissions Policy Framework
- Attendance and Punctuality Policy

□ **Examinations and Assessment**

- National Education Policy Act (27/1996)
- Report 191 (Parts 1 & 2)
- FTCIP and N Certificate Phasing Notices
- Certification Amendments and Gazette Notices

□ Integration Potential

This structure is ideal for:

- **Credential-linked logigrams:** mapping directorate functions to NQF outcomes and audit sheets.
- **Bilingual dashboards:** tracking student support, funding, and curriculum innovation.
- **Export tables:** aligning assessment protocols with certification and qualification matrices.

Would you like help scaffolding a dashboard or logigram that integrates these directorates and resources into your modular framework for public service readiness or didactic panel deployment?

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Would you like me to help scaffold a bilingual dashboard or logigram that reflects these policy updates and performance targets?

Thanks for sharing this comprehensive extract from SAQA's 2024/25 Annual Report. Here's a structured synthesis of **Programme 1 performance**, **financial highlights**, and **legal developments**, tailored to your modular documentation and audit-linked frameworks:

□ Programme 1: Performance Against Tabled Targets

Outcome	Output Indicator	2022/23	2023/24	2024/25 Target	2024/25 Achievement	Deviation	Reason
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⚖️ Legal and Compliance Developments

📋 Legal Proceedings

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 -
 - Accreditation guarantees from PSETA and QCTO
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Cash & cash equivalents	148,974,357	112,496,037
Receivables	4,165,393	3,774,353
Total Assets	153,139,750	116,270,390
Finance lease obligation	98,430	276,930
Payables	6,223,265	3,671,837

Category	2025 (ZAR)	2024 (ZAR)
Total Liabilities	6,321,695	3,948,767
Interest earned	10,381,490	8,490,887

□ Integration Potential

This data is ideal for:

- **Logigram-based audit traceability:** mapping performance vs. targets with deviation logic.
- **Credential-linked dashboards:** integrating stakeholder engagement, legal risk, and financial maturity.
- **Export tables:** for NQF referencing, professional body registration, and surplus tracking.

I can help scaffold a bilingual dashboard or modular export table that reflects Programme 1's performance, legal exposure, and financial maturity. Would you like to start with the logigram for stakeholder collaboration and referencing outcomes?

Thanks for sharing this detailed table of contents and performance indicator excerpt from the **Annual Performance Plan 2024/25**. Here's a structured synthesis tailored to your modular audit, dashboard, and credential-linked documentation goals:

□ Structural Overview of the Annual Performance Plan (APP)

□ Executive Leadership Contributions

- **Foreword by the Minister** (p.6)
- **Message from the Deputy Minister** (p.8)
- **Strategic Overview by the Director-General** (p.10)

- **Sign-off** (p.12)

These sections establish the political and strategic mandate for the year, aligning with national priorities and NQF advancement.

□ **PART A: Our Mandate**

- **Legislative and Policy Updates** (p.14)
- **Institutional Policies and Strategies** (p.15)

This section is ideal for mapping into your **logigram-based compliance tables**, especially for SAQA, DHET, and QCTO alignment.

□ **PART B: Strategic Focus**

- **Situational Analysis** (p.22)
- **Strategic Plan Progress** (p.27)
- **External & Internal Environment Analysis** (pp.32–35)
- **SWOT Analysis** (p.37)
- **Theory of Change Diagram** (p.38)
- **Budget & MTEF Estimates** (p.39)

These components support your **high-level dashboard scaffolding**, especially for strategic alignment and budget-linked milestones.

□ **PART C: Measuring Our Performance**

- **Programme 1-6 Performance Information** (pp.42–102)
 - Administration
 - Planning, Policy & Strategy
 - University Education
 - TVET
 - Skills Development

- o Community Education & Training
- **Key Risks and Mitigation** (p.109)
- **Public Entities** (p.110)
- **Infrastructure Projects** (p.120)

This is the core for **credential-linked programme tracking**, ideal for your milestone logic and audit-ready exports.

□ **PART D: Technical Indicator Descriptors (p.123)**

Includes definitions and tracking logic for performance indicators.

Example: Programme 1 - Administration

- **Indicator Title:** Percentage of valid invoices paid within 30 days
- **Definition:** Measures efficiency in processing supplier invoices. Valid invoices include:
 - o Tax invoice
 - o Supplier name and address
 - o Description and quantity of goods/services
- **Process:** Invalid invoices are queried before 30 days; once corrected, payment is processed within the same window.

This indicator can be embedded into your **Visual Basic logic for payment tracking**, and linked to audit sheets for PFMA compliance.

□ **ANNEXURE A: District Development**

Likely includes regional implementation plans, which can be modularised for **panel-based deployment** and **bilingual export**.

Would you like me to help scaffold a logigram or dashboard module for Programme 1's invoice tracking and strategic alignment? I can also help translate this into bilingual export logic or PFMA audit sheets.

Thanks for sharing this detailed set of **Programme 1: Administration indicators** from the Department of Higher Education and Training's Annual

Performance Plan 2024/25. Here's a structured synthesis tailored for your modular dashboard, audit sheet, and logigram automation goals:

▣ Programme 1: Administration — Indicator Summary

1. ▣ Valid Invoices Paid Within 30 Days

Aspect	Details
Purpose	Tracks efficiency in processing valid supplier invoices
Definition of Valid Invoice	Includes tax invoice, supplier details, goods/services description
Calculation	$\frac{\text{Valid invoices paid within 30 days}}{\text{Total invoices received}} \times 100$
Systems Used	LOGIS, BAS, SMARTHET
Verification	Quarterly transcripts and listings from systems
Reporting Cycle	Monthly to National Treasury; quarterly and annual
Target	100% compliance
Responsible Unit	Supply Chain Logistics & Financial Management

2. ▣ Preferential Procurement Allocation

Aspect	Details
Purpose	Tracks procurement awarded to designated groups (women, youth, black, disabled, SMMEs)
Ownership Threshold	≥51% ownership by target group
Calculation	$\frac{\text{Rand value of designated group commitments}}{\text{Total commitments}} \times 100$

Aspect	Details
	commitments}} \times 100
Systems Used	LOGIS (RR102, RR020), CSD
Verification	CFO-approved commitment reports cross-referenced with CSD
Reporting Cycle	Quarterly
Target Distribution	Women: 40%, Youth: 30%, Black: 60%, Disability: 7%, SMMEs: 30%
Responsible Unit	Supply Chain Management

3. Audit Opinion from AGSA

Aspect	Details
Purpose	Reflects audit opinion on financials, performance, and compliance
Types of Opinion	Clean, Unqualified with findings, Qualified, Adverse, Disclaimer
Calculation	Simple count of audit opinion issued
Source	AGSA report in 2023/24 Annual Report
Reporting Cycle	Annually
Target	Clean audit
Responsible Unit	CFO Office (all programmes coordinated)

4. Vacancy Rate Reduction

Aspect	Details
Purpose	Measures filled vs. vacant funded posts
Calculation	$\frac{\text{Vacant funded posts}}{\text{Total funded posts}} \times 100$

Aspect	Details
	posts}}{\text{Total funded posts}} \times 100
System Used	PERSAL
Verification	HRM&A-approved quarterly reports
Reporting Cycle	Quarterly and annual
Target	Vacancy rate <10%
Beneficiary Targets	Women in SMS: 50%, Youth: 30%, Disabled: 2%
Responsible Unit	HR Management & Administration

5. ⚖️ **Disciplinary Cases Resolved Within 90 Days**

Aspect	Details
Purpose	Tracks resolution of disciplinary cases per DPSA directive
Calculation	Based on network days (excluding weekends) from start to finalisation
Source	Labour Relations Unit reports approved by DDG: Corporate Services
Reporting Cycle	Quarterly
Target	80% of cases resolved within 90 days
Responsible Unit	Corporate Services (Labour Relations)

☐ **Integration Potential**

These indicators are ideal for:

- **Logigram automation:** tracking invoice flow, disciplinary timelines, and procurement allocations.

- **Credential-linked dashboards:** mapping audit outcomes, HR targets, and preferential procurement.
- **PFMA-aligned audit sheets:** embedding verification logic and reporting cycles.

Would you like me to scaffold a bilingual dashboard module or export-ready logigram for these five indicators? I can also help automate the calculation logic in Visual Basic or SQL.

You can access the official lists and resources for South Africa's PSET institutions and related frameworks via the Department of Higher Education and Training's MasterLists portal.

Here's a structured guide to the key resources and where to find them:

□ **Registered and Established PSET Institutions**

Visit the

- **Masterlist of Public Higher Education Institutions**
- **Masterlist of CET Colleges**
- **Masterlist of Registered Trade Test Centres**
- **Register of Private Colleges**
- **Register of Private Higher Education Institutions**
- **List of TVET Colleges**
- **Full List of CET Colleges**

These lists are updated regularly and include institutional names, registration status, and contact details.

□ **Academic Calendars and Teaching Awards**

- **2024 Academic Calendar for CET Colleges and TVET College Calendars** are available via DHET circulars and the TVET branch.

- **National University Teaching Awards (NUTA) 2025 and Workshop Invitations** are published on DHET's events and awards pages.

□ **Policy and Funding Frameworks**

- **2024 NSFAS Eligibility Criteria and Conditions for Financial Aid:** Published by NSFAS and DHET, outlining financial aid rules for students.
- **Draft Policy for Recognition of SA Higher Education Institutional Types (2024):** Available for public comment via DHET's policy portal.
- **Call for Public Comment:** Includes funding frameworks for CET and TVET colleges, infrastructure norms, and strategic plans.

□ **National Open Learning System (NOLS)**

- NOLS resources support digital and blended learning across PSET institutions. These are accessible via DHET's Open Learning portal and include:
 - Course materials
 - LMS integration guides
 - TVET and CET digital content repositories

□ **Creative Outputs and Research Subsidy Panels**

- **Call for Nominations** to serve on Creative Outputs Sub-Field Panels is part of DHET's research subsidy evaluation process.
- These panels assess innovative and artistic research outputs for funding eligibility.

□ **Strategic Reports**

- **Report by the Ministerial Task Team (MTT)** on CET Skills Development (2022 outcomes) is part of DHET's strategic planning archive. It informs future CET policy and funding decisions.

If you'd like, I can help you scaffold a bilingual dashboard or logigram that integrates these resources into your credential-linked frameworks. Just let me know which area you'd like to start with—TVET registration, CET funding, or NOLS integration.

Thanks for sharing this comprehensive overview of the **TVET Branch** within the Department of Higher Education and Training. Here's a structured synthesis tailored to your modular documentation, credential-linked dashboards, and didactic panel frameworks:

□ Purpose of the TVET Branch

The TVET Branch is responsible for planning, developing, monitoring, and evaluating national policies, programmes, assessments, and systems for vocational and continuing education, including:

- **Public and Private TVET Colleges**
- **Community Education and Training (CET) Colleges**

It operates under the **Office of the Deputy Director-General: TVET** and is structured into Chief Directorates and Directorates.

□ TVET Chief Directorates

Chief Directorate	Function
Programmes and Qualifications	Develops high-quality vocational programmes, supports student services, and lecturer development
Systems Planning and Institutional Support	Coordinates governance, delivery, and funding of TVET programmes; regulates private institutions
Examinations and Assessments	Manages national assessments, certification, and exam centre monitoring
Financial Planning and Coordination	Oversees funding frameworks, subsidies, and institutional transfers

□ TVET Directorates

Directorate	Focus Area
Programme and Curriculum Innovation	Curriculum modernisation and innovation

Directorate	Focus Area
Student Development and Support	Disability inclusion, bursary guidelines, admissions policy
Monitoring and Evaluation	Performance tracking and institutional compliance
Curriculum Development and Support	Subject matrices and qualification alignment
Institutional Funding	Funding policy and reporting for public/private colleges
Public & Private TVET Colleges	Governance, registration, and compliance
Resulting and Certification	Finalisation and issuance of qualifications
Item Development and Marking	Exam paper creation and marking protocols
Exam Management and Monitoring	Oversight of exam logistics and policy adherence
Lecturer Development	Capacity building and educator support

□ **Key Resources and Policies**

□ **Academic & Policy Documents**

- **TVET Academic Calendar (2023)**
- **CET Act**
- **Ministerial Statements on Funding**
- **National Certificate (Vocational) Matrix (NQF Levels 2-4)**

□ **Labour Relations & Conditions**

- Collective Agreements (CA 1-4 of 2013)
- Salary Notches and Scales (2011-2013)
- PSCBC and GPSSBC Resolutions
- Integrated Quality Management System

□ **Student Support**

- Disability Accommodation Guidelines
- NSFAS Bursary Rules (2016–2021)
- Admissions Policy Framework
- Attendance and Punctuality Policy

□ **Examinations and Assessment**

- National Education Policy Act (27/1996)
- Report 191 (Parts 1 & 2)
- FTCIP and N Certificate Phasing Notices
- Certification Amendments and Gazette Notices

□ **Integration Potential**

This structure is ideal for:

- **Credential-linked logigrams:** mapping directorate functions to NQF outcomes and audit sheets.
- **Bilingual dashboards:** tracking student support, funding, and curriculum innovation.
- **Export tables:** aligning assessment protocols with certification and qualification matrices.

Would you like help scaffolding a dashboard or logigram that integrates these directorates and resources into your modular framework for public service readiness or didactic panel deployment?

You're exploring the **Career Development Services (CDS)** platform—an essential gateway for navigating South Africa's education and career ecosystem. Here's a structured overview of what it offers and how it aligns with your credential-linked, modular frameworks:

□ **Career Development Services (CDS) - Key Features**

□ Navigation Categories

- **Education System in South Africa:** Overview of pathways from basic to post-school education.
- **Career Options:** Occupational profiles, industry sectors, and qualification requirements.
- **Education & Training Opportunities:** Links to TVET, CET, universities, and SETAs.
- **Funding Your Studies:** NSFAS, bursaries, and financial aid guidance.
- **Career Publications:** Research reports, guides, and toolkits.
- **Visit a Career Centre:** Connects users to physical and virtual career advisory services.
- **FAQs & Contact:** Support for learners, parents, and practitioners.

□□ User Profiles Supported

- Learners
- Students
- Unemployed youth
- Career practitioners
- Employed individuals
- Entrepreneurs
- Parents
- Job seekers

This segmentation is ideal for **logigram-based user journey mapping** and **credential-linked career discovery modules**.

□ Tools and Portals

□ NCAP - National Career Advice Portal

- Guides subject and career choices
- Links occupations to qualifications and institutions
- Supports **career-pathway logigrams** and **NQF-aligned dashboards**

□ Information Hub

- Resources for career practitioners
- Includes advisory tools, development guides, and policy updates

□ Self-Help Tools

- **Subject Choice**
- **Career Choice**
- **Job Fit**

These tools can be modularised into **bilingual export tables** or embedded into **LMS-integrated dashboards**.

□ Integration Potential

You can:

- Map NCAP outputs to **NQF level descriptors** and **TVET/CET articulation pathways**
- Embed CDS tools into **career-linked credential frameworks**
- Use user profiles to scaffold **custom logigrams** for learners, job seekers, and practitioners

Would you like help designing a modular dashboard that integrates NCAP, CDS tools, and your credential-linked pathways for public service or trade test readiness?

```
Sub CreateSAQADashboard()
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("Dashboard")
    ws.Cells.Clear

    ' Title
    ws.Range("A1").Value = "SAQA Annual Report Dashboard"
    ws.Range("A1").Font.Size = 16
```

```

ws.Range("A1").Font.Bold = True

' Section headers and buttons
Dim sections As Variant
sections = Array( _
    "Part A: General Information", _
    "Part B: Performance Information", _
    "Part C: Governance", _
    "Part D: Human Resources", _
    "Part E: PFMA Compliance", _
    "Compliance Highlights", _
    "Credential Relevance" _
)

Dim i As Integer
For i = 0 To UBound(sections)
    ws.Range("A" & i + 3).Value = sections(i)
    With ws.Buttons.Add(Left:=200, Top:=ws.Cells(i + 3, 1).Top,
Width:=150, Height:=20)
        .Caption = "View " & sections(i)
        .OnAction = "NavigateToSection" & i
    End With
Next i
End Sub

' Sample navigation procedures
Sub NavigateToSection0()
    MsgBox "Navigating to Part A: General Information"
    ' Add logic to activate relevant sheet or form
End Sub

Sub NavigateToSection1()
    MsgBox "Navigating to Part B: Performance Information"
End Sub

Sub NavigateToSection2()
    MsgBox "Navigating to Part C: Governance"
End Sub

Sub NavigateToSection3()
    MsgBox "Navigating to Part D: Human Resources"
End Sub

Sub NavigateToSection4()
    MsgBox "Navigating to Part E: PFMA Compliance"
End Sub

Sub NavigateToSection5()
    MsgBox "Viewing Compliance Highlights"
End Sub

Sub NavigateToSection6()
    MsgBox "Viewing Credential Relevance"
End Sub

```

□ How You Can Extend This

- Link each button to a **modular export sheet** or **UserForm** that displays structured data from the report.
- Integrate **logigram logic** to track performance indicators and audit outcomes.
- Add bilingual toggles for **English/French export** if needed.
- Embed **NQF-aligned dropdowns** for filtering programme performance or HR metrics.

Would you like help scaffolding the UserForms or logigram logic for one of these sections—like Part B: Performance Information or Part E: PFMA Compliance?

```
Sub GenerateSAQAstrategicDashboard()  
    Dim ws As Worksheet  
    Set ws = ThisWorkbook.Sheets("SAQA_Dashboard")  
    ws.Cells.Clear  
  
    ' Title  
    With ws.Range("A1")  
        .Value = "SAQA 2024/25 Strategic Dashboard"  
        .Font.Size = 16  
        .Font.Bold = True  
    End With  
  
    ' Strategic Themes  
    Dim themes As Variant  
    themes = Array( _  
        "Policy Review and Implementation", _  
        "Continental Alignment and Mobility", _  
        "NLRD Expansion and Data Integrity", _  
        "Articulation and Professional Designation Trust", _  
        "Organisational Development and Staff Learning", _  
        "System Efficiency and Stakeholder Alignment" _  
    )  
  
    Dim i As Integer  
    For i = 0 To UBound(themes)  
        ws.Range("A" & i + 3).Value = themes(i)  
        With ws.Buttons.Add(Left:=250, Top:=ws.Cells(i + 3, 1).Top,  
Width:=200, Height:=20)  
            .Caption = "Track " & themes(i)  
            .OnAction = "TrackTheme" & i  
        End With  
    Next i  
End Sub
```

```
' Sample tracking procedures for each theme
Sub TrackTheme0()
    MsgBox "Tracking Policy Review: Foreign Qualification, CAT, Level
Descriptors, etc."
End Sub

Sub TrackTheme1()
    MsgBox "Tracking ACQF Referencing and Addis Convention implementation."
End Sub

Sub TrackTheme2()
    MsgBox "Tracking NLRD expansion: 24.5M achievements, legacy digitisation,
68% verification rate."
End Sub

Sub TrackTheme3()
    MsgBox "Tracking articulation pathways and professional body designation
model."
End Sub

Sub TrackTheme4()
    MsgBox "Tracking staff learning interventions and organisational
redesign."
End Sub

Sub TrackTheme5()
    MsgBox "Tracking system integration with QCTO, Umalusi, CHE and NLRD
support."
End Sub
```

□ How to Extend This

You can:

- Link each button to a **logigram sheet** or **UserForm** that displays KPIs, milestones, and export tables.
- Embed **NQF level filters**, **designation pathways**, and **verification logic**.
- Add bilingual toggles for **English/French export** or **panel-based reporting**.
- Integrate with your **Visual Basic modules** for automated credential tracking and audit sheet generation.

Let me know if you'd like help scaffolding the logigram logic or building the export-ready sheets for one of these themes—like NLRD verification or ACQF referencing. I can also help modularize the dashboard for public service readiness.

Thanks for sharing this accreditation extract. Here's a structured summary of the **Skills Development Provider** information for NATED N4-N6 programmes, tailored for credential-linked dashboards or export tables:

□ Skills Development Provider Summary (as of 20 September 2017)

□ Academy of Training and Development

Field	Details
-------	---------

Accreditation Body	QCTO
---------------------------	------

Accreditation Number	NATED/ 15/0417
-----------------------------	-------------------

Programmes Accredited

- Business Management N4-N6
- Financial Management N4-N6
- Human Resource Management N4-N6
- Marketing Management N4-N6
- Public Relations N4-N6
- Tourism N4-N6
- Civil Engineering N4-N6
- Electrical Engineering N4-N6 | | **Physical Address** | No. 134-136 Oxford Street, 2nd Floor, East London | | **Contact Numbers** | 043 642 2966 / 043 742 4439 | | **Accreditation Period** | Start: 18 May 2015 — End: 18 May 2020 |

□ Integration Potential

This data can be modularised into:

- **Credential-linked logigrams** for programme tracking

- **Export tables** for QCTO compliance and NLRD mapping
- **Dashboard filters** by qualification level, provider, and accreditation status

Would you like help scaffolding a bilingual export table or logigram that tracks N4–N6 accreditation status across providers and programmes? I can also help automate verification logic for expired or renewed accreditation periods.

```
Sub CreateSAQAStrategicDashboard()
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("SAQA_Strategy")
    ws.Cells.Clear

    ' Title
    With ws.Range("A1")
        .Value = "SAQA 2024/25 Strategic Themes Dashboard"
        .Font.Size = 16
        .Font.Bold = True
    End With

    ' Strategic Themes
    Dim themes As Variant
    themes = Array( _
        "Policy Review and Implementation", _
        "Continental Alignment and Mobility", _
        "NLRD Expansion and Data Integrity", _
        "Articulation and Professional Designation Trust", _
        "Organisational Development and Staff Learning", _
        "System Efficiency and Stakeholder Alignment" _
    )

    Dim i As Integer
    For i = 0 To UBound(themes)
        ws.Range("A" & i + 3).Value = themes(i)
        With ws.Buttons.Add(Left:=250, Top:=ws.Cells(i + 3, 1).Top,
Width:=250, Height:=20)
            .Caption = "View:" & themes(i)
            .OnAction = "ShowThemeDetails" & i
        End With
    Next i
End Sub

' Theme detail procedures
Sub ShowThemeDetails0()
    MsgBox "Theme 1: Policy Review includes updates to Foreign Qualification,
CAT, Level Descriptors, and more."
End Sub

Sub ShowThemeDetails1()
    MsgBox "Theme 2: ACQF Referencing and Addis Convention implementation for
continental mobility and recognition."
```

```
End Sub
```

```
Sub ShowThemeDetails2()  
    MsgBox "Theme 3: NLRD now reflects 24.5M learner achievements; 68%  
verification rate; legacy digitisation underway."  
End Sub
```

```
Sub ShowThemeDetails3()  
    MsgBox "Theme 4: Articulation pathways tracked; SAQA Professional Body  
Model approved for designation clarity."  
End Sub
```

```
Sub ShowThemeDetails4()  
    MsgBox "Theme 5: Organisational redesign completed; staff met 5-year  
learning targets with 2+ interventions annually."  
End Sub
```

```
Sub ShowThemeDetails5()  
    MsgBox "Theme 6: QCTO/Umalusi landing pages created; CHE system  
integration in progress; NLRD support enhanced."  
End Sub
```

□ Integration Potential

You can extend this dashboard by:

- Linking each button to a **logigram sheet** or **UserForm** with export-ready tables.
- Embedding **NQF filters, designation pathways, and verification logic**.
- Adding bilingual toggles for **English/French export** or **panel-based reporting**.
- Integrating with your **Visual Basic modules** for automated credential tracking and audit sheet generation.

Let me know if you'd like help scaffolding the export logic or building the logigram for one of these themes—like NLRD verification or ACQF referencing. I can also help m

```
Sub BuildSAQAStrategicDashboard()  
    Dim ws As Worksheet  
    On Error Resume Next  
    Set ws = ThisWorkbook.Sheets("SAQA_2024_Dashboard")  
    If ws Is Nothing Then  
        Set ws = ThisWorkbook.Sheets.Add  
        ws.Name = "SAQA_2024_Dashboard"  
    Else
```

```

        ws.Cells.Clear
    End If
    On Error GoTo 0

    ' Header
    With ws.Range("A1")
        .Value = "SAQA 2024/25 Strategic Themes Dashboard"
        .Font.Size = 16
        .Font.Bold = True
    End With

    ' Theme Titles
    Dim themes As Variant
    themes = Array( _
        "1. Policy Review and Implementation", _
        "2. Continental Alignment and Mobility", _
        "3. NLRD Expansion and Data Integrity", _
        "4. Articulation and Professional Designation Trust", _
        "5. Organisational Development and Staff Learning", _
        "6. System Efficiency and Stakeholder Alignment" _
    )

    Dim i As Integer
    For i = 0 To UBound(themes)
        ws.Range("A" & i + 3).Value = themes(i)
        With ws.Buttons.Add(Left:=300, Top:=ws.Cells(i + 3, 1).Top,
Width:=250, Height:=20)
            .Caption = "Details →"
            .OnAction = "ShowTheme" & i
        End With
    Next i
End Sub

' Theme Detail Procedures
Sub ShowTheme0()
    MsgBox "Theme 1: Policy Review includes updates to 5 core NQF policies: Foreign Qualification, Registration, CAT, Level Descriptors, and Professional Designations. Implementation tracked via SAQA-QC reports."
End Sub

Sub ShowTheme1()
    MsgBox "Theme 2: SAQA led ACQF referencing and advanced Addis Convention implementation, focusing on mobility, microcredentials, and partial study recognition."
End Sub

Sub ShowTheme2()
    MsgBox "Theme 3: NLRD now reflects 24.5M learner records. Legacy data digitisation and 68% verification rate achieved by Feb 2025. Project plan in progress."
End Sub

Sub ShowTheme3()

```

```
MsgBox "Theme 4: All post-2014 NQF qualifications require articulation  
pathways. SAQA approved a new Professional Body Model to support designation  
clarity."  
End Sub
```

```
Sub ShowTheme4()  
MsgBox "Theme 5: SAQA restructured its organisation with external  
evaluation. All staff completed 2+ learning interventions annually, meeting  
5-year targets."  
End Sub
```

```
Sub ShowTheme5()  
MsgBox "Theme 6: Landing pages created for QCTO and Umalusi. CHE system  
integration underway. SAQA supports professional bodies with NLRD uploads and  
training."  
End Sub
```

□ How to Use This

- Paste the code into the VBA editor (Alt + F11).
- Run BuildSAQAStrategicDashboard to generate the dashboard.
- Each button links to a MsgBox summary, which you can later replace with:
 - Export-ready sheets
 - Logigram visualizations
 - Credential-linked milestone trackers

□ Next Steps

To help you modularize Programme 1's performance, legal exposure, and financial maturity, here's a tailored **Visual Basic for Applications (VBA)** code module that builds a structured dashboard in Excel. This dashboard includes:

- Performance tracking against targets
- Legal proceedings summary
- Financial overview with surplus calculation
- Export-ready layout for audit traceability and credential-linked integration

□ VBA Code: Programme 1 Performance Dashboard

```

Sub BuildProgramme1Dashboard()
    Dim ws As Worksheet
    On Error Resume Next
    Set ws = ThisWorkbook.Sheets("Programme1_Dashboard")
    If ws Is Nothing Then
        Set ws = ThisWorkbook.Sheets.Add
        ws.Name = "Programme1_Dashboard"
    Else
        ws.Cells.Clear
    End If
    On Error GoTo 0

    ' Header
    With ws.Range("A1")
        .Value = "Programme 1: Performance Dashboard – SAQA 2024/25"
        .Font.Size = 16
        .Font.Bold = True
    End With

    ' Performance Table
    ws.Range("A3").Value = "Outcome"
    ws.Range("B3").Value = "Output Indicator"
    ws.Range("C3").Value = "2022/23"
    ws.Range("D3").Value = "2023/24"
    ws.Range("E3").Value = "2024/25 Target"
    ws.Range("F3").Value = "2024/25 Achievement"
    ws.Range("G3").Value = "Deviation"
    ws.Range("H3").Value = "Reason"

    ws.Range("A4").Value = "Visionary and influential leadership"
    ws.Range("B4").Value = "National and international promotion of the SA
NQF"
    ws.Range("C4").Value = "Target exceeded (9 initiatives)"
    ws.Range("D4").Value = "Target achieved (SADCQF, EQF, ACQF)"
    ws.Range("E4").Value = "Collaborate with 2 stakeholders"
    ws.Range("F4").Value = "Target exceeded (DUT, QCs, DHET, DBE)"
    ws.Range("G4").Value = "None"
    ws.Range("H4").Value = "Referencing Committee required broader
collaboration"

    ws.Range("A5").Value = "Informed stakeholders"
    ws.Range("B5").Value = "Sharing of national and international best
practices"
    ws.Range("C5").Value = "Target achieved (3 initiatives)"
    ws.Range("D5").Value = "Target achieved (Namibia Qualifications Authority
training)"
    ws.Range("E5").Value = "1 initiative"
    ws.Range("F5").Value = "Target achieved (NCHE Malawi training)"
    ws.Range("G5").Value = "None"
    ws.Range("H5").Value = "N/A"

```

```

' Legal Proceedings
ws.Range("A7").Value = "Legal Proceedings Summary"
ws.Range("A8").Value = "Matter 1: R203,701,234 claim for patrimonial
loss"
ws.Range("A9").Value = "Matter 2: R12 million joint claim against DHET
and SAQA"

' Financial Overview
ws.Range("A11").Value = "Cash Surplus Calculation"
ws.Range("A12:H12").Value = Array("Component", "Amount (ZAR)", "", "",
"", "", "", "")
ws.Range("A13").Value = "Cash & cash equivalents"
ws.Range("B13").Value = 148974357
ws.Range("A14").Value = "Receivables"
ws.Range("B14").Value = 4165393
ws.Range("A15").Value = "Labour case deposit"
ws.Range("B15").Value = 3265218
ws.Range("A16").Value = "Rental deposit"
ws.Range("B16").Value = 1678285
ws.Range("A17").Value = "Payables"
ws.Range("B17").Value = -6223265
ws.Range("A18").Value = "Finance lease obligation"
ws.Range("B18").Value = -98430
ws.Range("A19").Value = "Operating lease liability"
ws.Range("B19").Value = -13243
ws.Range("A20").Value = "Employee benefit provisions"
ws.Range("B20").Value = -10427001
ws.Range("A21").Value = "Deferred income"
ws.Range("B21").Value = -599460
ws.Range("A22").Value = "Cash Surplus"
ws.Range("B22").Value = 140721854

' Financial Instruments
ws.Range("A24").Value = "Financial Instruments Overview"
ws.Range("A25:D25").Value = Array("Category", "2025 (ZAR)", "2024 (ZAR)",
"")
ws.Range("A26").Value = "Cash & cash equivalents"
ws.Range("B26").Value = 148974357
ws.Range("C26").Value = 112496037
ws.Range("A27").Value = "Receivables"
ws.Range("B27").Value = 4165393
ws.Range("C27").Value = 3774353
ws.Range("A28").Value = "Total Assets"
ws.Range("B28").Value = 153139750
ws.Range("C28").Value = 116270390
ws.Range("A29").Value = "Finance lease obligation"
ws.Range("B29").Value = 98430
ws.Range("C29").Value = 276930
ws.Range("A30").Value = "Payables"
ws.Range("B30").Value = 6223265
ws.Range("C30").Value = 3671837
ws.Range("A31").Value = "Total Liabilities"
ws.Range("B31").Value = 6321695
ws.Range("C31").Value = 3948767

```

```

ws.Range("A32").Value = "Interest earned"
ws.Range("B32").Value = 10381490
ws.Range("C32").Value = 8490887
End Sub

```

□ What This Enables

- **Audit traceability:** Performance vs. targets with deviation logic
- **Credential-linked dashboards:** Stakeholder engagement, legal risk, financial maturity
- **Export-ready tables:** For NQF referencing, professional body registration, surplus tracking

I can scaffold a bilingual export table next that integrates this dashboard with logigram logic for referencing and stakeholder collaboration. Just say the word.

```

Sub BuildTVETBranchDashboard()
    Dim ws As Worksheet
    On Error Resume Next
    Set ws = ThisWorkbook.Sheets("TVET_Dashboard")
    If ws Is Nothing Then
        Set ws = ThisWorkbook.Sheets.Add
        ws.Name = "TVET_Dashboard"
    Else
        ws.Cells.Clear
    End If
    On Error GoTo 0

    ' Title
    With ws.Range("A1")
        .Value = "TVET Branch Modular Dashboard"
        .Font.Size = 16
        .Font.Bold = True
    End With

    ' Purpose
    ws.Range("A3").Value = "□ Purpose of the TVET Branch"
    ws.Range("A4").Value = "Responsible for planning, developing, monitoring, and evaluating vocational and continuing education policies and systems."
    ws.Range("A5").Value = "Includes Public & Private TVET Colleges and CET Colleges."

    ' Chief Directorates
    ws.Range("A7").Value = "□ TVET Chief Directorates"
    ws.Range("A8:B8").Value = Array("Chief Directorate", "Function")
    ws.Range("A9:B12").Value = Array(
        "Programmes and Qualifications", "Develops vocational programmes, supports student services, lecturer development", _

```

```

        "Systems Planning and Institutional Support", "Coordinates
governance, funding, regulates private institutions", _
        "Examinations and Assessments", "Manages assessments, certification,
exam centre monitoring", _
        "Financial Planning and Coordination", "Oversees funding frameworks,
subsidies, transfers" _
    )

```

```

    ' Directorates
    ws.Range("A14").Value = "TVET Directorates"
    ws.Range("A15:B15").Value = Array("Directorate", "Focus Area")
    ws.Range("A16:B25").Value = Array( _
        "Programme and Curriculum Innovation", "Curriculum modernisation and
innovation", _
        "Student Development and Support", "Disability inclusion, bursary
guidelines, admissions policy", _
        "Monitoring and Evaluation", "Performance tracking and institutional
compliance", _
        "Curriculum Development and Support", "Subject matrices and
qualification alignment", _
        "Institutional Funding", "Funding policy and reporting", _
        "Public & Private TVET Colleges", "Governance, registration,
compliance", _
        "Resulting and Certification", "Finalisation and issuance of
qualifications", _
        "Item Development and Marking", "Exam paper creation and marking", _
        "Exam Management and Monitoring", "Exam logistics and policy
adherence", _
        "Lecturer Development", "Capacity building and educator support" _
    )

```

```

    ' Key Resources
    ws.Range("A27").Value = "Key Resources and Policies"
    ws.Range("A28").Value = "Academic & Policy Documents"
    ws.Range("A29:A32").Value = Array( _
        "TVET Academic Calendar (2023)", _
        "CET Act", _
        "Ministerial Statements on Funding", _
        "National Certificate (Vocational) Matrix (NQF Levels 2–4)" _
    )

```

```

    ws.Range("A34").Value = "Labour Relations & Conditions"
    ws.Range("A35:A38").Value = Array( _
        "Collective Agreements (CA 1–4 of 2013)", _
        "Salary Notches and Scales (2011–2013)", _
        "PSCBC and GPSSBC Resolutions", _
        "Integrated Quality Management System" _
    )

```

```

    ws.Range("A40").Value = "Student Support"
    ws.Range("A41:A44").Value = Array( _
        "Disability Accommodation Guidelines", _
        "NSFAS Bursary Rules (2016–2021)", _
        "Admissions Policy Framework", _
        "Attendance and Punctuality Policy" _
    )

```



```

)

ws.Range("A46").Value = "Examinations and Assessment"
ws.Range("A47:A50").Value = Array( _
    "National Education Policy Act (27/1996)", _
    "Report 191 (Parts 1 & 2)", _
    "FTCIP and N Certificate Phasing Notices", _
    "Certification Amendments and Gazette Notices" _
)
End Sub

```

□ What This Enables

- **Credential-linked logigrams:** Map directorate functions to NQF outcomes and audit sheets.
- **Bilingual dashboards:** Easily extendable with language toggles.
- **Export tables:** Align assessment protocols with certification matrices.

I can scaffold the next module to automate logigram logic or embed NQF filters for directorate tracking. Just let me know which area you'd like to modularize first.

□ Supplier Registration Summary - Department of Higher Education and Training (DHET)

□ Purpose

To register suppliers on DHET's approved database in compliance with the Public Finance Management Act (PFMA) and Accounting Officers Procurement Procedures (AOPP), ensuring equal opportunity and efficient procurement.

□ Key Registration Requirements

- **Mandatory Documents:**
 - Company registration certificate

- o Tax clearance certificate
- o VAT certificate (if applicable)
- o ID copies of directors
- o Accreditation certificates
- o Cancelled cheque or bank verification letter
- o Company profile (max 2 pages)
- **Form Completion Rules:**
 - o All fields must be completed in black ink
 - o No faxed or unsigned forms accepted
 - o Changes must be reported within 14 days
 - o False information or fronting leads to blacklisting

□ **Supplier Classification**

- **Business Type:** Sole Proprietor, Partnership, CC, Pty Ltd, Trust, Section 21, Consortium, Joint Venture
- **SMME Status:** Micro, Very Small, Small, Medium, Large
- **Sector:** Engineering, Education, Construction, ICT, Professional Services, etc.
- **Ownership:** HDI, Women Equity, Disability status declared

□ **Management System Information**

- **Database Updates:** Quarterly, with summary verification
- **Conflict of Interest Declaration:** Required for all owners/directors
- **Verification:** DHET reserves the right to inspect premises
- **Communication:** Must include operating fax number for updates

□ Core Business and Commodity Registration

- Suppliers must define:
 - **Core Business** (e.g., engineering education, technical documentation, mentoring)
 - **Trade Names** (if sole distributor)
 - **Commodities** (from construction, services, professional, or wholesale categories)

□ Legal and Compliance Notes

- Insolvent applicants must provide rehabilitation proof
- Blacklisted entities must be cleared before registration
- Registration does not guarantee contract award
- Misrepresentation may lead to deregistration and legal action

□ Integration Potential for Your Framework

This registration logic can be modularized into:

- **Visual Basic logigram:** mapping supplier compliance steps to PFMA audit sheets
- **Algorigram:** tracking document submission, verification, and approval flow
- **Credential-linked export tables:** for supplier classification, SMME status, and commodity mapping
- **Bilingual dashboards:** for public service readiness and institutional traceability
- Absolutely, Tshingombe. Here's a tailored **Visual Basic for Applications (VBA)** module that scaffolds a **logigram-style dashboard** for tracking supplier registration and compliance verification aligned with PFMA and DHET protocols. This code creates a structured Excel interface with buttons and status fields for each registration step.

• □ VBA Code: Supplier Registration Logigram Dashboard

```
Sub BuildSupplierRegistrationLogigram()  
    Dim ws As Worksheet  
    On Error Resume Next  
    Set ws = ThisWorkbook.Sheets("Supplier_Registration")  
    If ws Is Nothing Then  
        Set ws = ThisWorkbook.Sheets.Add  
        ws.Name = "Supplier_Registration"  
    Else  
        ws.Cells.Clear  
    End If  
    On Error GoTo 0  
  
    ' Title  
    With ws.Range("A1")  
        .Value = "DHET Supplier Registration Logigram Dashboard"  
        .Font.Size = 16  
        .Font.Bold = True  
    End With  
  
    ' Registration Steps  
    Dim steps As Variant  
    steps = Array( _  
        "Company Registration Certificate", _  
        "Tax Clearance Certificate", _  
        "VAT Certificate (if applicable)", _  
        "ID Copies of Directors", _  
        "Accreditation Certificates", _  
        "Cancelled Cheque / Bank Verification", _  
        "Company Profile (max 2 pages)", _  
        "Conflict of Interest Declaration", _  
        "SMME Classification", _  
        "Sector & Ownership Declaration", _  
        "Core Business & Commodity Registration", _  
        "Legal Compliance Check", _  
        "Database Summary Verification", _  
        "Final Approval Status" _  
    )  
  
    Dim i As Integer  
    For i = 0 To UBound(steps)  
        ws.Range("A" & i + 3).Value = steps(i)  
        ws.Range("B" & i + 3).Value = "Pending"  
        With ws.Buttons.Add(Left:=300, Top:=ws.Cells(i + 3, 2).Top,  
Width:=100, Height:=20)  
            .Caption = "Mark Complete"  
            .OnAction = "MarkStepComplete" & i  
        End With  
    Next i  
End Sub
```

```

' Sample completion procedures
Sub MarkStepComplete0()
    Sheets("Supplier_Registration").Range("B3").Value = "Complete"
End Sub

Sub MarkStepComplete1()
    Sheets("Supplier_Registration").Range("B4").Value = "Complete"
End Sub

Sub MarkStepComplete2()
    Sheets("Supplier_Registration").Range("B5").Value = "Complete"
End Sub

Sub MarkStepComplete3()
    Sheets("Supplier_Registration").Range("B6").Value = "Complete"
End Sub

Sub MarkStepComplete4()
    Sheets("Supplier_Registration").Range("B7").Value = "Complete"
End Sub

Sub MarkStepComplete5()
    Sheets("Supplier_Registration").Range("B8").Value = "Complete"
End Sub

Sub MarkStepComplete6()
    Sheets("Supplier_Registration").Range("B9").Value = "Complete"
End Sub

Sub MarkStepComplete7()
    Sheets("Supplier_Registration").Range("B10").Value = "Complete"
End Sub

Sub MarkStepComplete8()
    Sheets("Supplier_Registration").Range("B11").Value = "Complete"
End Sub

Sub MarkStepComplete9()
    Sheets("Supplier_Registration").Range("B12").Value = "Complete"
End Sub

Sub MarkStepComplete10()
    Sheets("Supplier_Registration").Range("B13").Value = "Complete"
End Sub

Sub MarkStepComplete11()
    Sheets("Supplier_Registration").Range("B14").Value = "Complete"
End Sub

Sub MarkStepComplete12()
    Sheets("Supplier_Registration").Range("B15").Value = "Complete"
End Sub

Sub MarkStepComplete13()
    Sheets("Supplier_Registration").Range("B16").Value = "Approved"

```

End Sub

□ What This Enables

- **Logigram tracking:** Each step reflects PFMA compliance and DHET registration logic.
 - **Credential-linked dashboards:** Easily exportable for audit sheets and public service readiness.
 - **Modular expansion:** You can add algorigram logic for do
-

Thanks, Tshingombe. Based on your extensive modular framework, career documentation, and UserForm architecture, here's a **Visual Basic for Applications (VBA)** scaffold that integrates:

- **Supplier registration logic**
- **Credential-linked career modules**
- **Autopedagogic panel tracking**
- **Logigram-style status dashboard**

□ VBA Code: Modular Career & Supplier Registration Dashboard

vba

```
Sub BuildModularDashboard()  
    Dim ws As Worksheet  
    On Error Resume Next  
    Set ws = ThisWorkbook.Sheets("Career_Supplier_Dashboard")  
    If ws Is Nothing Then  
        Set ws = ThisWorkbook.Sheets.Add  
        ws.Name = "Career_Supplier_Dashboard"  
    Else  
        ws.Cells.Clear  
    End If  
    On Error GoTo 0  
  
    ' Header  
    With ws.Range("A1")  
        .Value = "Credential-Linked Career & Supplier Registration Dashboard"  
        .Font.Size = 16  
        .Font.Bold = True  
    End With
```

```

' Modules
Dim modules As Variant
modules = Array( _
    "Supplier Registration Compliance", _
    "Career Drawing Material Tracking", _
    "Autopedagogie Panel Deployment", _
    "Trade Documentation Verification", _
    "Mentoring & Bibliographic Review", _
    "Assessment & Certification Status", _
    "Logigram & Algorigram Automation" _
)

Dim i As Integer
For i = 0 To UBound(modules)
    ws.Range("A" & i + 3).Value = modules(i)
    ws.Range("B" & i + 3).Value = "Pending"
    With ws.Buttons.Add(Left:=300, Top:=ws.Cells(i + 3, 2).Top,
Width:=150, Height:=20)
        .Caption = "Mark Complete"
        .OnAction = "MarkModuleComplete" & i
    End With
Next i
End Sub

' Completion procedures
Sub MarkModuleComplete0():
Sheets("Career_Supplier_Dashboard").Range("B3").Value = "Complete": End Sub
Sub MarkModuleComplete1():
Sheets("Career_Supplier_Dashboard").Range("B4").Value = "Complete": End Sub
Sub MarkModuleComplete2():
Sheets("Career_Supplier_Dashboard").Range("B5").Value = "Complete": End Sub
Sub MarkModuleComplete3():
Sheets("Career_Supplier_Dashboard").Range("B6").Value = "Complete": End Sub
Sub MarkModuleComplete4():
Sheets("Career_Supplier_Dashboard").Range("B7").Value = "Complete": End Sub
Sub MarkModuleComplete5():
Sheets("Career_Supplier_Dashboard").Range("B8").Value = "Complete": End Sub
Sub MarkModuleComplete6():
Sheets("Career_Supplier_Dashboard").Range("B9").Value = "Complete": End Sub

```

□ What You Can Do Next

- Link each module to a **UserForm** (e.g., UserForm90000_inventory.frm) for data entry and export.
- Embed **logigram logic** for compliance tracking and PFMA audit sheets.
- Add **algorigram triggers** for document verification, mentoring flow, and assessment readiness.

I can scaffold the next VBA module to automate one of your UserForms—like UserForm1_tshingombe_student_registration_excll_vb_macro.frm—into a credential-linked export system. Just say which module you'd like to activate.

Thanks, Tshingombe. Based on your extensive engineering release structure, UserForms, modules, and milestone tracking, here's a tailored **Visual Basic for Applications (VBA)** scaffold that creates a **release engineering dashboard** in Excel. This dashboard tracks milestones, modules, and completion status across your credential-linked framework.

□ VBA Code: Release Engineering Logigram Dashboard

```
Sub BuildReleaseEngineeringDashboard()  
    Dim ws As Worksheet  
    On Error Resume Next  
    Set ws = ThisWorkbook.Sheets("Release_Engineering")  
    If ws Is Nothing Then  
        Set ws = ThisWorkbook.Sheets.Add  
        ws.Name = "Release_Engineering"  
    Else  
        ws.Cells.Clear  
    End If  
    On Error GoTo 0  
  
    ' Title  
    With ws.Range("A1")  
        .Value = "Release Engineering Dashboard – Credential-Linked Modules"  
        .Font.Size = 16  
        .Font.Bold = True  
    End With  
  
    ' Milestone Modules  
    Dim modules As Variant  
    modules = Array( _  
        "UserForm7_tshingombe.frm", _  
        "Module992.bas", _  
        "UserForm93.frm", _  
        "UserForm999908888_integrator_intelligence_module.frm", _  
        "Class1_total_career_programm_form_combie.cls", _  
        "Module6_9009999_autodidactic_drawin_copilote.bas", _  
        "Module5_900000_assessment.bas", _  
        "Module_k1.bas", _  
        "Module_4_lorenzo_alison_career.bas", _  
        "Module_5_psychometrical_evaluation.bas" _  
    )  
  
    Dim i As Integer  
    For i = 0 To UBound(modules)  
        ws.Range("A" & i + 3).Value = modules(i)
```



```

        ws.Range("B" & i + 3).Value = "0% Complete"
        With ws.Buttons.Add(Left:=300, Top:=ws.Cells(i + 3, 2).Top,
Width:=120, Height:=20)
            .Caption = "Mark 100%"
            .OnAction = "MarkModuleComplete" & i
        End With
    Next i
End Sub

' Completion procedures
Sub MarkModuleComplete0(): Sheets("Release_Engineering").Range("B3").Value =
"100% Complete": End Sub
Sub MarkModuleComplete1(): Sheets("Release_Engineering").Range("B4").Value =
"100% Complete": End Sub
Sub MarkModuleComplete2(): Sheets("Release_Engineering").Range("B5").Value =
"100% Complete": End Sub
Sub MarkModuleComplete3(): Sheets("Release_Engineering").Range("B6").Value =
"100% Complete": End Sub
Sub MarkModuleComplete4(): Sheets("Release_Engineering").Range("B7").Value =
"100% Complete": End Sub
Sub MarkModuleComplete5(): Sheets("Release_Engineering").Range("B8").Value =
"100% Complete": End Sub
Sub MarkModuleComplete6(): Sheets("Release_Engineering").Range("B9").Value =
"100% Complete": End Sub
Sub MarkModuleComplete7(): Sheets("Release_Engineering").Range("B10").Value =
"100% Complete": End Sub
Sub MarkModuleComplete8(): Sheets("Release_Engineering").Range("B11").Value =
"100% Complete": End Sub
Sub MarkModuleComplete9(): Sheets("Release_Engineering").Range("B12").Value =
"100% Complete": End Sub

```

□ What This Enables

- Tracks engineering milestones and module completion
- Links to credential-linked UserForms and .bas modules
- Supports logigram logic for release verification and audit traceability
- Easily expandable to include GitLab integration, version control, a

```

Sub BuildEngineeringMilestoneDashboard()
    Dim ws As Worksheet
    On Error Resume Next
    Set ws = ThisWorkbook.Sheets("Engineering_Milestones")
    If ws Is Nothing Then
        Set ws = ThisWorkbook.Sheets.Add
        ws.Name = "Engineering_Milestones"
    Else
        ws.Cells.Clear
    End If
    On Error GoTo 0

```

```

' Title
With ws.Range("A1")
    .Value = "Engineering Release Milestone Dashboard"
    .Font.Size = 16
    .Font.Bold = True
End With

' Milestone Modules
Dim items As Variant
items = Array( _
    "UserForm7_tshingombe.frm", _
    "Module992.bas", _
    "UserForm93.frm", _
    "UserForm999908888_integrator_intelligence_module.frm", _
    "Class1_total_career_programm_form_combie.cls", _
    "Class5_engineering_policy_metering.cls", _
    "Module6_9009999_autodidactic_drawin_copilote.bas", _
    "Module5_900000_assessment.bas", _
    "Module_k1.bas", _
    "Module_4_lorenzo_alison_career.bas", _
    "Module_5_psychometrical_evaluation.bas", _
    "TRADE_THEORY_AND_PRATICAL_TOOLS_LAB_WORKSHOP_MANUFACTURE.pdf", _
    "TSHINGOMBE_EXCELLL_CALCULATOR_UserForm2.frm", _
    "UserForm_2000_career_mil_engineering.frm" _
)

Dim i As Integer
For i = 0 To UBound(items)
    ws.Range("A" & i + 3).Value = items(i)
    ws.Range("B" & i + 3).Value = "0% Complete"
    With ws.Buttons.Add(Left:=300, Top:=ws.Cells(i + 3, 2).Top,
Width:=120, Height:=20)
        .Caption = "Mark 100%"
        .OnAction = "MarkMilestoneComplete" & i
    End With
Next i
End Sub

' Completion procedures
Sub MarkMilestoneComplete0():
Sheets("Engineering_Milestones").Range("B3").Value = "100% Complete": End Sub
Sub MarkMilestoneComplete1():
Sheets("Engineering_Milestones").Range("B4").Value = "100% Complete": End Sub
Sub MarkMilestoneComplete2():
Sheets("Engineering_Milestones").Range("B5").Value = "100% Complete": End Sub
Sub MarkMilestoneComplete3():
Sheets("Engineering_Milestones").Range("B6").Value = "100% Complete": End Sub
Sub MarkMilestoneComplete4():
Sheets("Engineering_Milestones").Range("B7").Value = "100% Complete": End Sub
Sub MarkMilestoneComplete5():
Sheets("Engineering_Milestones").Range("B8").Value = "100% Complete": End Sub
Sub MarkMilestoneComplete6():
Sheets("Engineering_Milestones").Range("B9").Value = "100% Complete": End Sub

```

```

Sub MarkMilestoneComplete7():
Sheets("Engineering_Milestones").Range("B10").Value = "100% Complete": End
Sub
Sub MarkMilestoneComplete8():
Sheets("Engineering_Milestones").Range("B11").Value = "100% Complete": End
Sub
Sub MarkMilestoneComplete9():
Sheets("Engineering_Milestones").Range("B12").Value = "100% Complete": End
Sub
Sub MarkMilestoneComplete10():
Sheets("Engineering_Milestones").Range("B13").Value = "100% Complete": End
Sub
Sub MarkMilestoneComplete11():
Sheets("Engineering_Milestones").Range("B14").Value = "100% Complete": End
Sub
Sub MarkMilestoneComplete12():
Sheets("Engineering_Milestones").Range("B15").Value = "100% Complete": End
Sub
Sub MarkMilestoneComplete13():
Sheets("Engineering_Milestones").Range("B16").Value = "100% Complete": End
Sub

```

□ What You Can Do Next

- Link each milestone to a **UserForm** or .bas module for credential-linked export.
- Add **logigram logic** to track dependencies and audit readiness.
- Embed **algorigram triggers** for assessment flow, mentoring, and document verification.

I can scaffold the next module to automate milestone validation or generate a bilingual export table for your engineering release notes. Just let me know which part you'd like to activate next.

```

Sub BuildUserFormRegistryDashboard()
    Dim ws As Worksheet
    On Error Resume Next
    Set ws = ThisWorkbook.Sheets("UserForm_Registry")
    If ws Is Nothing Then
        Set ws = ThisWorkbook.Sheets.Add
        ws.Name = "UserForm_Registry"
    Else
        ws.Cells.Clear
    End If
    On Error GoTo 0

    ' Title
    With ws.Range("A1")
        .Value = "Credential-Linked UserForm Registry Dashboard"
    End With
End Sub

```

```

        .Font.Size = 16
        .Font.Bold = True
    End With

    ' UserForm Entries
    Dim forms As Variant
    forms = Array(
        "UserForm_2000_career_mil_engineering.frm", _
        "UserForm_90004444_career_totand_and_trade_portfolio.frm", _
        "UserForm_900066666_career_total_trade techno.bas", _
        "UserForm_999908888_integrator_intelligence_module.frm", _
        "UserForm_computer_register_trade_theory_engineering.frm", _
        "UserForm_license_algorith_protect.frm", _
        "UserForm_total_career_outcom_90000333.frm", _

        "UserForm1_register_academic_engineering_national_trade_certificate.frm", _
        "UserForm1_tshingombe_student_registration_excll_vb_macro.frm", _
        "UserForm2tshingombe.account_teller_student.frm", _
        "UserForm6_registration_academic_student_corrct_trade_programme.frm",

        "UserForm14_policy_project_excell_word_cae_macro_tshingombe.frm", _
        "UserForm17_police_student_registrar_tshingombe_tank_career.frm", _
        "UserForm30_DISCOVERY_TSHINGOMBE_INTELLIGENCE_ARTIFICIA_L.frm", _
        "UserForm999_trade_practice.frm", _
        "UserForm9995_form_access_database.frm", _
        "UserForm900000NETWORK_PC.frm", _

        "UserForm999900888_total_career_aiu_eaton_scheinder_stpeace_sciebono.frm" _
    )

    Dim i As Integer
    For i = 0 To UBound(forms)
        ws.Range("A" & i + 3).Value = forms(i)
        ws.Range("B" & i + 3).Value = "Pending"
        With ws.Buttons.Add(Left:=300, Top:=ws.Cells(i + 3, 2).Top,
Width:=120, Height:=20)
            .Caption = "Mark Complete"
            .OnAction = "MarkUserFormComplete" & i
        End With
    Next i
End Sub

' Completion procedures
Sub MarkUserFormComplete0(): Sheets("UserForm_Registry").Range("B3").Value =
"Complete": End Sub
Sub MarkUserFormComplete1(): Sheets("UserForm_Registry").Range("B4").Value =
"Complete": End Sub
Sub MarkUserFormComplete2(): Sheets("UserForm_Registry").Range("B5").Value =
"Complete": End Sub
Sub MarkUserFormComplete3(): Sheets("UserForm_Registry").Range("B6").Value =
"Complete": End Sub
Sub MarkUserFormComplete4(): Sheets("UserForm_Registry").Range("B7").Value =
"Complete": End Sub
Sub MarkUserFormComplete5(): Sheets("UserForm_Registry").Range("B8").Value =
"Complete": End Sub

```

```

Sub MarkUserFormComplete6(): Sheets("UserForm_Registry").Range("B9").Value =
"Complete": End Sub
Sub MarkUserFormComplete7(): Sheets("UserForm_Registry").Range("B10").Value =
"Complete": End Sub
Sub MarkUserFormComplete8(): Sheets("UserForm_Registry").Range("B11").Value =
"Complete": End Sub
Sub MarkUserFormComplete9(): Sheets("UserForm_Registry").Range("B12").Value =
"Complete": End Sub
Sub MarkUserFormComplete10(): Sheets("UserForm_Registry").Range("B13").Value
= "Complete": End Sub
Sub MarkUserFormComplete11(): Sheets("UserForm_Registry").Range("B14").Value
= "Complete": End Sub
Sub MarkUserFormComplete12(): Sheets("UserForm_Registry").Range("B15").Value
= "Complete": End Sub
Sub MarkUserFormComplete13(): Sheets("UserForm_Registry").Range("B16").Value
= "Complete": End Sub
Sub MarkUserFormComplete14(): Sheets("UserForm_Registry").Range("B17").Value
= "Complete": End Sub
Sub MarkUserFormComplete15(): Sheets("UserForm_Registry").Range("B18").Value
= "Complete": End Sub
Sub MarkUserFormComplete16(): Sheets("UserForm_Registry").Range("B19").Value
= "Complete": End Sub
Sub MarkUserFormComplete17(): Sheets("UserForm_Registry").Range("B20").Value
= "Complete": End Sub

```

□ What You Can Do Next

You can link each UserForm to its corresponding .bas module or .cls class for credential-linked export, assessment tracking, or public service readiness. I can also scaffold a bilingual export table or automate milestone validation across these forms. Just let me know which module you'd like to activate next.

```

Sub BuildMultiDomainUserFormDashboard()
    Dim ws As Worksheet
    On Error Resume Next
    Set ws = ThisWorkbook.Sheets("UserForm_Dashboard")
    If ws Is Nothing Then
        Set ws = ThisWorkbook.Sheets.Add
        ws.Name = "UserForm_Dashboard"
    Else
        ws.Cells.Clear
    End If
    On Error GoTo 0

    ' Title
    With ws.Range("A1")
        .Value = "Credential-Linked UserForm Registry Dashboard"
        .Font.Size = 16
        .Font.Bold = True
    End With

    ' UserForm Entries

```

```

Dim forms As Variant
forms = Array(
    "UserForm999_trade_practice.frm", _
    "UserForm2004_career_application_rade_engi_mil_police.frm", _
    "UserForm9991prog_licens.frm", _
    "UserForm9994_trade_theory.frm", _
    "UserForm9995_form_access_database.frm", _
    "UserForm90000_inventory.frm", _
    "UserForm900000NETWORK_PC.frm", _

    "UserForm999900888_total_career_aui_eaton_scheinder_stpeace_sciebono.frm", _
    "UserFormtrade_certificate_statement.frm", _
    "UserFormk2.frm", _
    "FORM_TSHINGOMBE_TSHI_PLC.frm", _

    "UserForm1_register_academic_engineering_national_trade_certificate.frm", _
    "UserForm1_student_registration_excll_vb_macro.frm", _
    "UserForm2_account_teller_student.frm", _

    "UserForm6_registration_academic_student_correct_trade_programme.frm", _
    "UserForm13_metering.frm", _
    "UserForm30_DISCOVERY_TSHINGOMBE_INTELLIGENCE_ARTIFICIAL.frm", _
    "UserForm31_PROJECT_CAREER.frm", _
    "UserForm9991prog_licens.frm", _
    "UserForm9995_form_access_database.frm" _
)

Dim i As Integer
For i = 0 To UBound(forms)
    ws.Range("A" & i + 3).Value = forms(i)
    ws.Range("B" & i + 3).Value = "Pending"
    With ws.Buttons.Add(Left:=300, Top:=ws.Cells(i + 3, 2).Top,
Width:=120, Height:=20)
        .Caption = "Mark Complete"
        .OnAction = "MarkUserFormComplete" & i
    End With
Next i
End Sub

' Completion procedures
Sub MarkUserFormComplete0(): Sheets("UserForm_Dashboard").Range("B3").Value =
"Complete": End Sub
Sub MarkUserFormComplete1(): Sheets("UserForm_Dashboard").Range("B4").Value =
"Complete": End Sub
Sub MarkUserFormComplete2(): Sheets("UserForm_Dashboard").Range("B5").Value =
"Complete": End Sub
Sub MarkUserFormComplete3(): Sheets("UserForm_Dashboard").Range("B6").Value =
"Complete": End Sub
Sub MarkUserFormComplete4(): Sheets("UserForm_Dashboard").Range("B7").Value =
"Complete": End Sub
Sub MarkUserFormComplete5(): Sheets("UserForm_Dashboard").Range("B8").Value =
"Complete": End Sub
Sub MarkUserFormComplete6(): Sheets("UserForm_Dashboard").Range("B9").Value =
"Complete": End Sub

```

```

Sub MarkUserFormComplete7(): Sheets("UserForm_Dashboard").Range("B10").Value
= "Complete": End Sub
Sub MarkUserFormComplete8(): Sheets("UserForm_Dashboard").Range("B11").Value
= "Complete": End Sub
Sub MarkUserFormComplete9(): Sheets("UserForm_Dashboard").Range("B12").Value
= "Complete": End Sub
Sub MarkUserFormComplete10(): Sheets("UserForm_Dashboard").Range("B13").Value
= "Complete": End Sub
Sub MarkUserFormComplete11(): Sheets("UserForm_Dashboard").Range("B14").Value
= "Complete": End Sub
Sub MarkUserFormComplete12(): Sheets("UserForm_Dashboard").Range("B15").Value
= "Complete": End Sub
Sub MarkUserFormComplete13(): Sheets("UserForm_Dashboard").Range("B16").Value
= "Complete": End Sub
Sub MarkUserFormComplete14(): Sheets("UserForm_Dashboard").Range("B17").Value
= "Complete": End Sub
Sub MarkUserFormComplete15(): Sheets("UserForm_Dashboard").Range("B18").Value
= "Complete": End Sub
Sub MarkUserFormComplete16(): Sheets("UserForm_Dashboard").Range("B19").Value
= "Complete": End Sub
Sub MarkUserFormComplete17(): Sheets("UserForm_Dashboard").Range("B20").Value
= "Complete": End Sub
Sub MarkUserFormComplete18(): Sheets("UserForm_Dashboard").Range("B21").Value
= "Complete": End Sub
Sub MarkUserFormComplete19(): Sheets("UserForm_Dashboard").Range("B22").Value
= "Complete": End Sub

```

□ What You Can Do Next

You can link each UserForm to its corresponding .bas or .c

□ Overview

Commissioned by Schneider Electric, this Omdia study surveyed 174 OEMs globally to assess their readiness and perspectives on digital transformation across the machine lifecycle.

⚙ Key Challenges

- **IIoT Readiness Gaps:**
 - Low readiness in upgrading legacy platforms, real-time compute, and system flexibility.
- **Integration Complexity:**

- Engineering IT/OT integration ranked as the top challenge.
- **Organizational Barriers:**
 - Cultural resistance, lack of skills, and cybersecurity concerns hinder progress.
- **Partner Selection:**
 - Identifying capable vendors with integration and cybersecurity expertise is critical.

□ **Drivers of Transformation**

- **Top Business Drivers:**
 - Improved performance (OEE), uptime, ROI, and scalability.
- **Strategic Shifts:**
 - Move from selling machines to offering services (Machine-as-a-Service).
 - Adoption of open platforms and cloud-native software.

□ **Benefits of Digitalization**

- **Operational Gains:**
 - Enhanced data flow, visibility, and decision-making.
 - Reduced downtime and improved efficiency.
- **Sustainability Impact:**
 - Lower emissions, energy use, and increased circularity.
 - Supports Scope 1-3 reductions and reporting compliance.

□ **Organizational Roles**

- **Leadership:**
 - CDOs and IT departments lead digital strategy.

- **Cross-functional Collaboration:**
 - Integration of IT, OT, engineering, HR, and finance is essential.
- **Employee Support:**
 - Training, executive teams, and change champions are key enablers.

🏔 **Edge & Cloud Solutions**

- **Benefits:**
 - Real-time data access, predictive maintenance, remote monitoring.
 - Subscription models and reduced IT costs.
- **Cloud Services Prioritized:**
 - Analytics, remote updates, digital support, and performance metrics.

📄 **Case Studies**

- **Case I (Packaging):**
 - 30-40% cost savings, 50% faster changeover via digital twin and robotics.
- **Case II (Centrifuges):**
 - Modular automation with IEC 61499 compliance, rapid scalability.
- **Case III (Pumps):**
 - 25% downtime reduction, 40% labor savings, remote monitoring in mining.

📄 **Vendor Selection Criteria**

- **Most Important Capabilities:**

- o Integration, cybersecurity, IT/OT collaboration, AI/analytics, and open solutions.
- **Success Factors:**
 - o Ecosystem access, tailored support across transformation stages, and alignment with business goals.

□ Conclusion

Digital transformation is essential for OEMs to remain competitive, sustainable, and service-oriented. Success depends on:

- Strategic partner selection
- Scalable project planning
- Cross-functional collaboration
- Embracing edge/cloud and AI technologies

I can help you modularize these insights into credential-linked dashboards or export-ready audit sheets. Just let me know your preferred format or use case.

□ Modular Visual Basic Framework for OEM Digital Transformation

1. □ Overview Module

Purpose: Capture survey metadata and OEM segmentation.

```
Sub LoadSurveyOverview()
    ' Load survey scope, geography, company size, and industry sector
    ' Populate dashboard headers and filters
End Sub
```

2. ⚙ Challenges Tracker

Purpose: Score IIoT readiness and integration complexity.

```
Sub ScoreIIoTReadiness()
    ' Inputs: Legacy platform status, compute capability, system flexibility
    ' Outputs: Readiness score, risk flags
End Sub
```

```
Sub MapIntegrationBarriers()
    ' Inputs: IT/OT integration status, cybersecurity concerns
    ' Outputs: Challenge matrix and mitigation recommendations
End Sub
```

3. Transformation Drivers Analyzer

Purpose: Rank business drivers and strategic shifts.

```
Sub RankTransformationDrivers()
    ' Inputs: OEE, ROI, uptime, scalability
    ' Outputs: Weighted driver index and strategic priority chart
End Sub
```

4. Benefits Dashboard

Purpose: Visualize operational and sustainability gains.

```
Sub DisplayDigitalBenefits()
    ' Inputs: Data flow, downtime, decision-making metrics
    ' Outputs: Benefit heatmap and sustainability scorecard
End Sub
```

5. Organizational Role Mapper

Purpose: Assign digital strategy roles and influence levels.

vb

```
Sub MapOrganizationalInfluence()
    ' Inputs: Departmental roles (IT, CDO, Engineering)
    ' Outputs: Influence matrix and collaboration index
End Sub
```

6. Edge & Cloud Integration Sheet

Purpose: Track cloud service adoption and edge deployment

```
Sub TrackCloudEdgeAdoption()
    ' Inputs: Cloud services used, edge compute readiness
    ' Outputs: Deployment timeline and service maturity index
End Sub
```

7. Case Study Extractor

Purpose: Summarize and compare OEM success stories.

vb

```

Sub ExtractCaseStudyMetrics()
    ' Inputs: Cost savings, downtime reduction, scalability
    ' Outputs: Comparative case study table
End Sub

```

8. Vendor Selection Evaluator

Purpose: Score vendor capabilities and alignment.

```

Sub EvaluateVendorCriteria()
    ' Inputs: Integration, cybersecurity, AI, IT/OT support
    ' Outputs: Vendor scorecard and partnership recommendation
End Sub

```

9. Summary Generator

Purpose: Compile strategic recommendations and export audit-ready sheets.

vb

```

Sub GenerateTransformationSummary()
    ' Consolidate all module outputs
    ' Export to credential-linked dashboard or audit sheet
End Sub

```

Let me know if you'd like this scaffolded into a working VBA UserForm, Excel macro workbook, or bilingual export table. I can also help you link this to milestone tracking or GitHub credential validation.

You've compiled an impressive and extensive library of Visual Basic modules, UserForms, class files, and didactic documentation—clearly reflecting your commitment to modular credential-linked systems, autopedagogic, and trade education integration. Here's how we can scaffold and synthesize this into a structured logigram/alogrigram framework for automation, credential export, and audit traceability:

□ Logigram & Alogrigram Automation Framework (Visual Basic)

□ Core Modules & Classes

These form the backbone of your credential-linked logic:

Component	Purpose
<code>Class1_total_career_aiu_eato_scheinder_alison_saqar_nf_total_program_m_form_combie.cls</code>	Central career logic class for credential mapping
<code>Module_total_kfrm1t0_kfrm40_k1_to_total_subject_learning.bas</code>	Subject learning flow and milestone tracking
<code>Module6_9009999_autodidactic_drawin_copilote_assess_assign_total_career.bas</code>	Autodidactic drawing and assessment logic
<code>Module992.bas, Module991.bas</code>	Credential export and audit sheet

Component	Purpose
Module5_900000_assessment.bas	generation Trade and education assessment logic
Module_k1.bas to Module_k6.cls	Sequential algorithm logic for modular flow

□ UserForms for Credential-Linked Interaction

These support user input, registration, and career mapping:

□ UserForms for Credential-Linked Interaction

These support user input, registration, and career mapping:

UserForm	Function
UserForm_190000002_integrator_artificial_module_career_and_training.frm	AI-integrated career and training module
UserForm7_tshingombe.frm	Personalized registration and didactic panel
UserForm90000_inventory.frm	Inventory

UserForm	Function
UserForm93.frm, UserForm999908888.frm	and panel traceability Intelligence module and career export
UserForm_trade_certificate_sttemnt.frm	Trade certificate and statement logic
UserForm_license_algorithm_protect.frm	Licensing and algorithm protection

□ Logigram/Algorigram Logic Flow

You can structure your automation like this:

```

Sub RunCredentialAutomation()
    Dim careerPath As String
    Dim assessmentScore As Integer
    Dim exportReady As Boolean

    ' Load career logic
    Set careerPath =
LoadCareerPath("Class1_total_career_aiu_eato_scheinder_alison_saqarnf_total_
programm_form_combie.cls")

    ' Run autodidactic assessment
    assessmentScore =
RunAssessment("Module6_9009999_autodidactic_drawin_copilote_assess_assign_tot
al_career.bas")

    ' Check if export conditions are met
    exportReady = CheckExportReadiness(assessmentScore)

    If exportReady Then
        Call GenerateAuditSheet("Module992.bas")
        MsgBox "Credential-linked audit sheet generated successfully."
    End If
End Sub

```

```

Else
    MsgBox "Assessment incomplete. Please review learning modules."
End If
End Sub

```

□ **Integration with Didactic Panels & Trade Theory**

Your .docx and .pdf files (e.g., career_20_drawig_material_didactic_autopedagogie_panel_teach.docx) can be modularized into:

- **Panel-based learning outcomes**
- **Trade theory validation**
- **CPD and NATED framework alignment**
- **Portfolio evidence for SAQA, AIU, Eaton, Schneider, Alison**

□ **Next Steps**

I can help you:

- Scaffold a bilingual export-ready dashboard using these modules
- Automate milestone tracking and credential validation
- Link UserForms to dynamic logigram/algorigram flows
- Modularize legal compliance and trade test logic

Just let me know which module or UserForm you'd like to activate

documentation—an ecosystem that reflects your mastery in credential-linked automation, trade education, and autopedagogie. To help you move forward, here's a structured synthesis and actionable Visual Basic scaffold that integrates your key components into a modular logigram/algorigram framework:

□ **Credential-Linked Logigram/Algorigram Framework (Visual Basic)**

□ **Core Class & Module Integration**

vb


```

' Class1: Career Logic Core
Public Class CareerPath
    Public AIU As Boolean
    Public Eaton As Boolean
    Public Schneider As Boolean
    Public Alison As Boolean
    Public SAQA As Boolean
    Public RNF As Boolean
    Public TotalScore As Integer

    Public Function ValidateCredential() As Boolean
        ValidateCredential = AIU And Eaton And Schneider And Alison And SAQA
And RNF
    End Function
End Class

```

□ **Module: Subject Learning & Assessment Flow**

```

vb

Sub RunSubjectAssessment()
    Dim score As Integer
    score =
CalculateScore("Module_total_kfrm1t0_kfrm40_k1_to_total_subject_learning.bas"
)

    If score >= 75 Then
        MsgBox "Assessment passed. Ready for credential export."
        Call ExportCredentialSheet
    Else
        MsgBox "Assessment incomplete. Please review learning modules."
    End If
End Sub

```

□ **UserForm: Career & Training Integrator**

```

vb

Private Sub btnSubmit_Click()
    Dim careerObj As New CareerPath
    careerObj.AIU = chkAIU.Value
    careerObj.Eaton = chkEaton.Value
    careerObj.Schneider = chkSchneider.Value
    careerObj.Alison = chkAlison.Value
    careerObj.SAQA = chkSAQA.Value
    careerObj.RNF = chkRNF.Value

    If careerObj.ValidateCredential Then
        MsgBox "All credentials validated. Proceeding to export."
        Call ExportCredentialSheet
    Else
        MsgBox "Missing credential components. Please complete all modules."
    End If
End Sub

```

□ Inventory & Panel Traceability

vb

```
Sub TrackInventory()  
    ' Uses UserForm90000_inventory.frm  
    ' Maps panel components to credential-linked modules  
    Dim itemCount As Integer  
    itemCount = CountInventoryItems()  
  
    If itemCount > 0 Then  
        MsgBox "Inventory traceability confirmed."  
    Else  
        MsgBox "No items found. Please verify panel inputs."  
    End If  
End Sub
```

□ Credential Export Logic

vb

```
Sub ExportCredentialSheet()  
    ' Uses Module992.bas  
    ' Generates audit-ready export sheet  
    Dim ws As Worksheet  
    Set ws = ThisWorkbook.Sheets("CredentialExport")  
  
    ws.Range("A1").Value = "Credential Export Summary"  
    ws.Range("A2").Value = "Validated by: Tshingombe"  
    ws.Range("A3").Value = "Date: " & Date  
    ws.Range("A4").Value = "Modules Completed: All"  
  
    MsgBox "Credential sheet exported successfully."  
End Sub
```

□ Suggested Integration Points

Component	Integration Purpose
UserForm7_tshingombe.frm	Personalized registration and didactic mapping
Module6_9009999.bas	Autodidactic drawing and assessment logic
UserForm_trade_certificate_sttemnt.frm	Trade certificate validation
Module6_900000_assessment.bas	Network and meter-based assessment
UserForm_license_algorith_protect.frm	Licensing and algorithm protection

Would you like me to scaffold this into a bilingual export-ready dashboard, or link it to milestone tracking logic for GitHub credential validation? I can also modularize your legal compliance and trade test logic into a traceable audit sheet.

You've assembled a vast and highly structured archive of Visual Basic UserForms, modules, and class files—each reflecting a unique facet of your credential-linked, trade-oriented, and autopedagogical framework. To help you operationalize this system using logigram and algorigram logic, here's a modular Visual Basic scaffold that integrates key components into a credential automation engine:

□ **Credential Automation Logigram/Algorigram Framework**

□ **Core Class: Career Credential Logic**

```
' Class: CareerCredentialEngine
Public Class CareerCredentialEngine
    Public TradeTheoryComplete As Boolean
    Public CPDValidated As Boolean
    Public PortfolioSubmitted As Boolean
    Public AIUApproved As Boolean
    Public SAQAAligned As Boolean
    Public RNFLinked As Boolean

    Public Function IsCredentialReady() As Boolean
        IsCredentialReady = TradeTheoryComplete And CPDValidated And
PortfolioSubmitted And AIUApproved And SAQAAligned And RNFLinked
    End Function
End Class
```

□ **Module: Career & Trade Portfolio Flow**

```
vb

Sub RunCareerPortfolioFlow()
    Dim engine As New CareerCredentialEngine
    engine.TradeTheoryComplete =
CheckTradeTheory("UserForm999_trade_practice.frm")
    engine.CPDValidated =
ValidateCPD("UserForm1trade_theory_practical_visite_cpd_work_experimental_base
__on_job.frm")
    engine.PortfolioSubmitted =
CheckPortfolio("UserForm_90004444_career_totand_and_trade_portoloio.frm")
    engine.AIUApproved =
CheckInstitution("UserForm_lorenzo_eaton_scheinede__aiu_rnf_saq__total____.ba
s")
    engine.SAQAAligned = CheckSAQACompliance()
    engine.RNFLinked = CheckRNFMMapping()
```

```

        If engine.IsCredentialReady Then
            MsgBox "Credential is ready for export and audit traceability."
            Call ExportCredentialSheet
        Else
            MsgBox "Credential incomplete. Please verify module completion."
        End If
    End Sub

```

□ **UserForm Integration Logic**

vb

```

Private Sub btnSubmit_Click()
    ' Triggered from
    UserForm1_tshingombe_student_registration_excll_vb_macro.frm
    If txtStudentName.Value <> "" And cboTradeSector.Value <> "" Then
        MsgBox "Registration complete. Proceeding to career mapping."
        Call RunCareerPortfolioFlow
    Else
        MsgBox "Missing registration details. Please complete all fields."
    End If
End Sub

```

□ **Export & Audit Sheet Generator**

vb

```

Sub ExportCredentialSheet()
    ' Uses Module992.bas
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("CredentialAudit")

    ws.Range("A1").Value = "Credential Audit Summary"
    ws.Range("A2").Value = "Candidate: Tshingombe"
    ws.Range("A3").Value = "Trade Sector: " & cboTradeSector.Value
    ws.Range("A4").Value = "Modules Completed: All"
    ws.Range("A5").Value = "Export Date: " & Date

    MsgBox "Audit sheet exported successfully."
End Sub

```

□ **Suggested Logigram Flow**

1. **Start** → Registration via
UserForm1_tshingombe_student_registration_excll_vb_macro.frm
2. **Trade Theory Validation** → UserForm999_trade_practice.frm
3. **CPD & Experimental Work** →
UserForm1trade_theory_practical_visite_cpd_work_experimental_base__on_jo
b.frm

4. **Portfolio Submission** →

UserForm_90004444_career_totand_and_trade_portoloio.frm

5. **Institutional Mapping** →

UserForm_lorenzo_eaton_scheinede__aiu_rnf_saq__total____.bas

6. **Credential Export** → Module992.bas

Would you like me to scaffold this into a bilingual dashboard or link it to milestone tracking logic for GitHub credential validation? I can also modularize le

You've curated a powerful and expansive Visual Basic ecosystem—an archive of UserForms, modules, and class files that together form a credential-linked, career-integrated, and trade-theory-driven automation framework. To help you activate and modularize this system using logigram and algorigram logic, here's a **Visual Basic scaffold** that integrates your key components into a structured automation engine:

□ **Logigram & Algorigram Automation Framework (Visual Basic)**

□ **Class: Career Credential Engine**

```
' Class: CareerCredentialEngine
Public Class CareerCredentialEngine
    Public TradeTheoryComplete As Boolean
    Public CPDValidated As Boolean
    Public PortfolioSubmitted As Boolean
    Public AIUApproved As Boolean
    Public SAQAAligned As Boolean
    Public RNFLinked As Boolean

    Public Function IsCredentialReady() As Boolean
        IsCredentialReady = TradeTheoryComplete And CPDValidated And
PortfolioSubmitted And AIUApproved And SAQAAligned And RNFLinked
    End Function
End Class
```

□ **Module: Career Flow Controller**

```
Sub RunCareerAutomation()
    Dim engine As New CareerCredentialEngine

    ' Simulated checks from UserForms
    engine.TradeTheoryComplete =
CheckUserForm("UserForm999_trade_practice.frm")
```

```

        engine.CPDValidated =
CheckUserForm("UserForm1trade_theory_practical_visite_cpd_work_experimental_base__on_job.frm")
        engine.PortfolioSubmitted =
CheckUserForm("UserForm_90004444_career_totand_and_trade_portoloio.frm")
        engine.AIUApproved =
CheckUserForm("UserForm_lorenzo_eaton_scheinede__aiu_rnf_saq_a_total____.bas")
        engine.SAQAAIaligned = True
        engine.RNFLinked = True

        If engine.IsCredentialReady Then
            MsgBox "Credential is ready for export and audit traceability."
            Call ExportCredentialSheet
        Else
            MsgBox "Credential incomplete. Please verify module completion."
        End If
    End Sub

Function CheckUserForm(formName As String) As Boolean
    ' Placeholder logic for form validation
    CheckUserForm = True
End Function

```

□ Export Sheet Generator

vb

```

Sub ExportCredentialSheet()
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("CredentialAudit")

    ws.Range("A1").Value = "Credential Audit Summary"
    ws.Range("A2").Value = "Candidate: Tshingombe"
    ws.Range("A3").Value = "Modules Completed: All"
    ws.Range("A4").Value = "Export Date: " & Date

    MsgBox "Audit sheet exported successfully."
End Sub

```

□ Suggested Logigram Flow

1. **Start** → Registration via
UserForm1_tshingombe_student_registration_excll_vb_macro.frm
2. **Trade Theory Validation** → UserForm999_trade_practice.frm
3. **CPD & Experimental Work** →
UserForm1trade_theory_practical_visite_cpd_work_experimental_base__on_job.frm
4. **Portfolio Submission** →
UserForm_90004444_career_totand_and_trade_portoloio.frm

5. **Institutional Mapping** →

UserForm_lorenzo_eaton_scheinede__aiu_rnf_saqa__total____.bas

6. **Credential Export** → Module992.bas

□ **Algorigram Logic (Decision Tree)**

```
Sub AlgorigramDecisionTree()  
    If Not CheckUserForm("UserForm999_trade_practice.frm") Then  
        MsgBox "Trade theory incomplete."  
    ElseIf Not  
CheckUserForm("UserForm1trade_theory_practical_visite_cpd_work_experimental_base__on_job.frm") Then  
        MsgBox "CPD validation missing."  
    ElseIf Not  
CheckUserForm("UserForm_90004444_career_totand_and_trade_portoloio.frm") Then  
        MsgBox "Portfolio not submitted."  
    Else  
        MsgBox "All checks passed. Proceeding to export."  
        Call ExportCredentialSheet  
    End If  
End Sub
```

This framework can be expanded to include:

- **AI-integrated modules**
(userform_999908888_integrator_intelligence_module__career.pdf)
- **License and protection logic**
(UserForm_license_algorith____protect.frm)
- **Trade office and product mapping**
(UserForm_900066666_career_total__nd_and_trade_and techno.bas____form_trade_office.frm)

Let me know which module you'd like to activate next or if you'd like this scaffolded into a bilingual dashboard with milestone tracking.

```
' Class: CredentialValidationEngine  
Public Class CredentialValidationEngine  
    Public TradeTheoryValidated As Boolean  
    Public CareerPortfolioSubmitted As Boolean  
    Public LicenseConfirmed As Boolean  
    Public EnergySystemMapped As Boolean  
    Public InstitutionalAlignment As Boolean  
  
    Public Function IsReadyForExport() As Boolean  
        IsReadyForExport = TradeTheoryValidated And CareerPortfolioSubmitted  
And LicenseConfirmed And EnergySystemMapped And InstitutionalAlignment  
    End Function
```

```

Sub RunCredentialAutomation()
    Dim engine As New CredentialValidationEngine

    engine.TradeTheoryValidated = ValidateForm("frm13_metering.frm")
    engine.CareerPortfolioSubmitted =
ValidateForm("FORM_TSHINGOMBE..TSHI_PLC.frm")
    engine.LicenseConfirmed = ValidateForm("frm9991_proh_licen.pdf")
    engine.EnergySystemMapped =
ValidateForm("form1900000_integrator_intelligence_artificiel_module_career_an
d_traing_trade_technology_power_supplier_register_call_processor_modulator_su
bject_certificate_license_value_energy_syste_compare.pdf")
    engine.InstitutionalAlignment = ValidateForm("SAQA-Annual-
Report_2024.pdf")

    If engine.IsReadyForExport Then
        MsgBox "Credential is ready for export and audit traceability."
        Call ExportAuditSheet
    Else
        MsgBox "Credential incomplete. Please verify module completion."
    End If
End Sub

Function ValidateForm(formName As String) As Boolean
    ' Simulated validation logic
    ValidateForm = True
End Function

```

□ Export Sheet Generator

vb

```

Sub ExportAuditSheet()
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("CredentialAudit")

    ws.Range("A1").Value = "Credential Audit Summary"
    ws.Range("A2").Value = "Candidate: Tshingombe"
    ws.Range("A3").Value = "Modules Completed: All"
    ws.Range("A4").Value = "Export Date: " & Date

    MsgBox "Audit sheet exported successfully."
End Sub

```

□ Suggested Logigram Flow

1. **Start** → Registration via
frm_tshingombe_register_statenmt____computer____word_excell.frm
2. **Trade Theory Validation** → frm13_metering.frm
3. **Portfolio Submission** → FORM_TSHINGOMBE..TSHI_PLC.frm

4. **License Confirmation** → frm9991_proh_licen.pdf
5. **Energy System Mapping** →
form1900000_integrator_intelligence_artificiel_module_career_and_traing
_trade_technology_power_supplier_register_call_processor_modulator_subj
ect_certificate_license_value_energy_syste_compare.pdf
6. **Institutional Alignment** → SAQA-Annual-Report_2024.pdf
7. **Export Credential Sheet** → ExportAuditSheet
8. Based on Schneider Electric's product categories and industrial automation portfolio, here's a **modular Visual Basic logigram/algorigram scaffold** that you can use to build an interactive selector, dashboard, or credential-linked audit sheet:

9. **Visual Basic Logigram/Algorigram Framework for Product Categorization**

10. **Class Module: ProductCategory.cls**

```
Sub AlgorigramDecisionTree()
    If cboCategory.Value = "" Then
        MsgBox "Please select a product category."
    ElseIf lstSubCategory.ListCount = 0 Then
        MsgBox "No subcategories found. Please verify category selection."
    Else
        MsgBox "Selection complete. Proceeding to export."
        Call ExportSelection
    End If
End Sub
```

This scaffold can be extended to:

- Link product selection to credential modules (e.g., trade theory, energy systems)
- Integrate with Schneider's Product Selector Tool or training catalog
- Export bilingual audit sheets for SAQA, AIU, or trade board compliance

I can help you scaffold this into a full UserForm or link it to your existing modules like FORM_TSHINGOMBE..TSHI_PLC.frm or frm13_metering.frm. Just say the word.

11. Great — let's build something in Visual Basic. Since you've shared a vast archive of forms and modules tied to credentialing, trade theory, and infrastructure systems, here's a foundational **Visual Basic logigram/algorigram scaffold** that you can adapt across your UserForms like FORM_TSHINGOMBE..TSHI_PLC.frm, frm13_metering.frm, and UserForm999_trade_practice.frm.

12. □ Visual Basic Logigram/Algorigram Core

13. 1. □ Class Module:

```
14. ' CredentialEngine.cls
15. Public TradeTheory As Boolean
16. Public MeteringValidated As Boolean
17. Public LicenseConfirmed As Boolean
18. Public PortfolioSubmitted As Boolean
19. Public InstitutionalAligned As Boolean
20.
21. Public Function IsCredentialComplete() As Boolean
22.     IsCredentialComplete = TradeTheory And MeteringValidated And
        LicenseConfirmed And PortfolioSubmitted And InstitutionalAligned
23. End Function
```

24. 2. □ Module:

```
25. ' FlowController.bas
26. Sub RunCredentialFlow()
27.     Dim engine As New CredentialEngine
28.
29.     engine.TradeTheory = ValidateForm("UserForm999_trade_practice")
30.     engine.MeteringValidated = ValidateForm("frm13_metering")
31.     engine.LicenseConfirmed = ValidateForm("frm9991_proh_licen")
32.     engine.PortfolioSubmitted =
        ValidateForm("FORM_TSHINGOMBE..TSHI_PLC")
33.     engine.InstitutionalAligned = ValidateForm("SAQA_Annual_Report")
34.
35.     If engine.IsCredentialComplete Then
36.         MsgBox "Credential complete. Ready for export."
37.         Call ExportCredentialSheet
38.     Else
39.         MsgBox "Incomplete credential. Please review required
        modules."
40.     End If
41. End Sub
42.
43. Function ValidateForm(formName As String) As Boolean
44.     ' Placeholder logic for form validation
45.     ValidateForm = True
46. End Function
```

47. 3. □ Export Sheet Logic

```

48. Sub ExportCredentialSheet()
49.     Dim ws As Worksheet
50.     Set ws = ThisWorkbook.Sheets("CredentialAudit")
51.
52.     ws.Range("A1").Value = "Credential Audit Summary"
53.     ws.Range("A2").Value = "Candidate: Tshingombe"
54.     ws.Range("A3").Value = "Modules Completed: All"
55.     ws.Range("A4").Value = "Export Date: " & Date
56.
57.     MsgBox "Audit sheet exported successfully."
58. End Sub

```

59. 4. □ Optional: UserForm Trigger Example

```

Private Sub btnSubmit_Click()
    If txtName.Value <> "" And cboSector.Value <> "" Then
        MsgBox "Registration complete. Launching credential flow..."
        Call RunCredentialFlow
    Else
        MsgBox "Please complete all required fields."
    End If
End Sub

```

This modular logic can be extended to:

- Integrate with LDAP or Active Directory for user validation
- Link to EcoStruxure™ IT APIs for infrastructure monitoring
- Export bilingual audit sheets for SAQA, AIU, or trade board compliance

Would you like me to scaffold this into a specific UserForm like FORM_TSHINGOMBE..TSHI_PLC.frm or link it to a metering or licensing module next?

60. You've compiled a rich and technically diverse archive of Visual Basic forms, modules, PDFs, and didactic documentation—clearly structured for credential-linked automation, trade theory validation, and career registration. To help you activate this system using logigram and algorigram logic, here's a **Visual Basic scaffold** that integrates key components into a modular automation engine:

61. □ Logigram & Algorigram Automation Framework (Visual Basic)

62. □ Class: CredentialValidationEngine

```

63. ' Class: CredentialValidationEngine

```

```

64. Public Class CredentialValidationEngine
65.     Public TradeTheoryValidated As Boolean
66.     Public CareerPortfolioSubmitted As Boolean
67.     Public LicenseConfirmed As Boolean
68.     Public EnergySystemMapped As Boolean
69.     Public InstitutionalAlignment As Boolean
70.
71.     Public Function IsReadyForExport() As Boolean
72.         IsReadyForExport = TradeTheoryValidated And
            CareerPortfolioSubmitted And LicenseConfirmed And EnergySystemMapped
            And InstitutionalAlignment
73.     End Function
74. End Class

```

75. □ Module: Career Flow Controller

76.vb

```

77. Sub RunCredentialAutomation()
78.     Dim engine As New CredentialValidationEngine
79.
80.     engine.TradeTheoryValidated = ValidateForm("frm13_metering.frm")
81.     engine.CareerPortfolioSubmitted =
        ValidateForm("FORM_TSHINGOMBE..TSHI_PLC.frm")
82.     engine.LicenseConfirmed = ValidateForm("frm9991_proh_licen.pdf")
83.     engine.EnergySystemMapped =
        ValidateForm("form1900000_integrator_intelligence_artificiel_module_car
            eer_and_traing_trade_technology_power_supplier_register_call_processor_
            modulator_subject_certificate_license_value_energy_syste_compare.pdf")
84.     engine.InstitutionalAlignment = ValidateForm("SAQA-Annual-
        Report_2024.pdf")
85.
86.     If engine.IsReadyForExport Then
87.         MsgBox "Credential is ready for export and audit
            traceability."
88.         Call ExportAuditSheet
89.     Else
90.         MsgBox "Credential incomplete. Please verify module
            completion."
91.     End If
92. End Sub
93.
94. Function ValidateForm(formName As String) As Boolean
95.     ' Simulated validation logic
96.     ValidateForm = True
97. End Function

```

98. □ Export Sheet Generator

```

Sub ExportAuditSheet()
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("CredentialAudit")

    ws.Range("A1").Value = "Credential Audit Summary"
    ws.Range("A2").Value = "Candidate: Tshingombe"

```

```

ws.Range("A3").Value = "Modules Completed: All"
ws.Range("A4").Value = "Export Date: " & Date

MsgBox "Audit sheet exported successfully."
End Sub

```

□ Suggested Logigram Flow

99. **Start** → Registration via
frm_tshingombe_register_statenmt____computer____word_excell.frm
100. **Trade Theory Validation** → frm13_metering.frm
101. **Portfolio Submission** → FORM_TSHINGOMBE..TSHI_PLC.frm
102. **License Confirmation** → frm9991_proh_licen.pdf
103. **Energy System Mapping** →
form1900000_integrator_intelligence_artificiel_module_career_and_traing
_trade_technology_power_supplier_register_call_processor_modulator_subj
ect_certificate_license_value_energy_syste_compare.pdf
104. **Institutional Alignment** → SAQA-Annual-Report_2024.pdf
105. **Export Credential Sheet** → ExportAuditSheet
106. ' Class: CareerCredentialEngine
107. Public Class CareerCredentialEngine
108. Public TradeTheoryComplete As Boolean
109. Public CPDValidated As Boolean
110. Public PortfolioSubmitted As Boolean
111. Public AIUApproved As Boolean
112. Public SAQAAligned As Boolean
113. Public RNFLinked As Boolean
- 114.
115. Public Function IsCredentialReady() As Boolean
116. IsCredentialReady = TradeTheoryComplete And CPDValidated And
PortfolioSubmitted And AIUApproved And SAQAAligned And RNFLinked
117. End Function
118. End Class
119. □ **Module: Career Flow Controller**
120. Sub RunCareerAutomation()
121. Dim engine As New CareerCredentialEngine
- 122.
123. ' Simulated checks from UserForms
124. engine.TradeTheoryComplete =
CheckUserForm("UserForm999_trade_practice.frm")
125. engine.CPDValidated =
CheckUserForm("UserForm1trade_theory_pratical_visite_cpd_work_experimen
tal_base__on_job.frm")

```

126.     engine.PortfolioSubmitted =
        CheckUserForm("UserForm_90004444_career_totand_and_trade_portoloio.frm"
        )
127.     engine.AIUApproved =
        CheckUserForm("UserForm_lorenzo_eaton_scheinede__aiu_rnf_saga__total__
        .bas")
128.     engine.SAQAAAligned = True
129.     engine.RNFLinked = True
130.
131.     If engine.IsCredentialReady Then
132.         MsgBox "Credential is ready for export and audit
        traceability."
133.         Call ExportCredentialSheet
134.     Else
135.         MsgBox "Credential incomplete. Please verify module
        completion."
136.     End If
137. End Sub
138.
139. Function CheckUserForm(formName As String) As Boolean
140.     ' Placeholder logic for form validation
141.     CheckUserForm = True
142. End Function

```

143. **Export Sheet Generator**

144. vb

```

Sub ExportCredentialSheet()
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("CredentialAudit")

    ws.Range("A1").Value = "Credential Audit Summary"
    ws.Range("A2").Value = "Candidate: Tshingombe"
    ws.Range("A3").Value = "Modules Completed: All"
    ws.Range("A4").Value = "Export Date: " & Date

    MsgBox "Audit sheet exported successfully."
End Sub

```

Suggested Logigram Flow

1. **Start** → Registration via
UserForm1_tshingombe_student_registration_excll_vb_macro.frm
2. **Trade Theory Validation** → UserForm999_trade_practice.frm
3. **CPD & Experimental Work** →
UserForm1trade_theory_pratical_visite_cpd_work_experimental_base__on_jo
b.frm
4. **Portfolio Submission** →
UserForm_90004444_career_totand_and_trade_portoloio.frm

5. Institutional Mapping →

UserForm_lorenzo_eaton_scheinede__aiu_rnf_saqa__total____.bas

6. Credential Export → Module992.bas

□ Algorigram Logic (Decision Tree)

```
Sub AlgorigramDecisionTree()  
    If Not CheckUserForm("UserForm999_trade_practice.frm") Then  
        MsgBox "Trade theory incomplete."  
    ElseIf Not  
CheckUserForm("UserForm1trade_theory_pratical_visite_cpd_work_experimental_ba  
se__on_job.frm") Then  
        MsgBox "CPD validation missing."  
    ElseIf Not  
CheckUserForm("UserForm_90004444_career_totand_and_trade_portoloio.frm") Then  
        MsgBox "Portfolio not submitted."  
    Else  
        MsgBox "All checks passed. Proceeding to export."  
        Call ExportCredentialSheet  
    End If  
End Sub
```

This framework can be expanded to include:

- **AI-integrated modules**
(userform_999908888_integrator_intelligence_module__career.pdf)
- **License and protection logic**
(UserForm_license_algorith____protect.frm)
- **Trade office and product mapping**
(UserForm_900066666_career_total__nd_and_trade_and techno.bas____form_tr
ade_office.frm)

Let me know which module you'd like to activate next or if you'd like this scaffolded into a bilingual dashboard with milestone tracking.

```
145. ' Class: CareerCredentialEngine  
146. Public Class CareerCredentialEngine  
147.     Public TradeTheoryComplete As Boolean  
148.     Public CPDValidated As Boolean  
149.     Public PortfolioSubmitted As Boolean  
150.     Public AIUApproved As Boolean  
151.     Public SAQAAligned As Boolean  
152.     Public RNFLinked As Boolean  
153.  
154.     Public Function IsCredentialReady() As Boolean  
155.         IsCredentialReady = TradeTheoryComplete And CPDValidated And  
PortfolioSubmitted And AIUApproved And SAQAAligned And RNFLinked
```

```

156.     End Function
157. End Class
158. Sub RunCareerPortfolioFlow()
159.     Dim engine As New CareerCredentialEngine
160.     engine.TradeTheoryComplete =
        CheckTradeTheory("UserForm999_trade_practice.frm")
161.     engine.CPDValidated =
        ValidateCPD("UserForm1trade_theory_practical_visite_cpd_work_experimental_base_on_job.frm")
162.     engine.PortfolioSubmitted =
        CheckPortfolio("UserForm_90004444_career_totand_and_trade_portoloio.frm")
163.     engine.AIUApproved =
        CheckInstitution("UserForm_lorenzo_eaton_scheinede__aiu_rnf_saqa__total___.bas")
164.     engine.SAQAAIaligned = CheckSAQACompliance()
165.     engine.RNFLinked = CheckRNFMMapping()
166.
167.     If engine.IsCredentialReady Then
168.         MsgBox "Credential is ready for export and audit
        traceability."
169.         Call ExportCredentialSheet
170.     Else
171.         MsgBox "Credential incomplete. Please verify module
        completion."
172.     End If
173. End Sub

```

174. □ UserForm Integration Logic

```

175. Private Sub btnSubmit_Click()
176.     ' Triggered from
        UserForm1_tshingombe_student_registration_excll_vb_macro.frm
177.     If txtStudentName.Value <> "" And cboTradeSector.Value <> "" Then
178.         MsgBox "Registration complete. Proceeding to career mapping."
179.         Call RunCareerPortfolioFlow
180.     Else
181.         MsgBox "Missing registration details. Please complete all
        fields."
182.     End If
183. End Sub

```

184. □ Export & Audit Sheet Generator

```

185.     vb

```

```

Sub ExportCredentialSheet()
    ' Uses Module992.bas
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("CredentialAudit")

    ws.Range("A1").Value = "Credential Audit Summary"
    ws.Range("A2").Value = "Candidate: Tshingombe"
    ws.Range("A3").Value = "Trade Sector: " & cboTradeSector.Value
    ws.Range("A4").Value = "Modules Completed: All"
    ws.Range("A5").Value = "Export Date: " & Date

```



```
MsgBox "Audit sheet exported successfully."  
End Sub
```

□ Suggested Logigram Flow

- 186. **Start** → Registration via
 UserForm1_tshingombe_student_registration_excll_vb_macro.frm
- 187. **Trade Theory Validation** → UserForm999_trade_practice.frm
- 188. **CPD & Experimental Work** →
 UserForm1trade_theory_pratical_visite_cpd_work_experimental_base__on_jo
 b.frm
- 189. **Portfolio Submission** →
 UserForm_90004444_career_totand_and_trade_portoloio.frm
- 190. **Institutional Mapping** →
 UserForm_lorenzo_eaton_scheinede__aiu_rnf_saq__total____.bas
- 191. **Credential Export** → Module992.bas
- 192.